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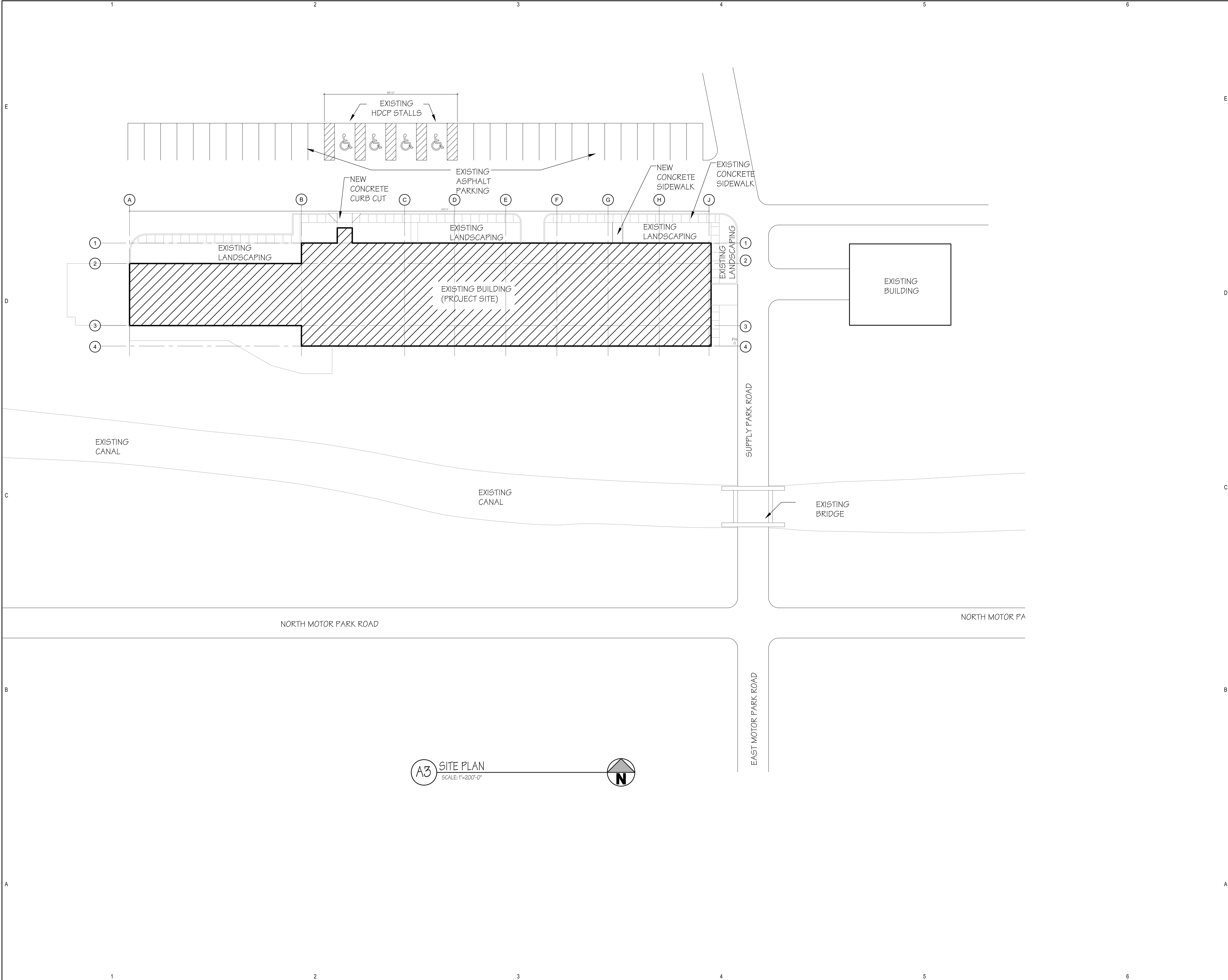
CAMP WILLIAMS BLDG.  
1830 REMODEL  
UTAH NATIONAL GUARD

MARK	DATE	DESCRIPTION
△	7-21-2008	DFCM REVIEW COMMENTS

DATE:	June 19, 2008
PROJECT NO:	08021480
HFSA PROJECT NO:	0763.01
CAD DWG FILE NO:	
DRAWN BY:	
CHECKED BY:	
DESIGNED BY:	
DWG TYPE:	Architectural
ARCHITECTURAL PHASE:	Construction Documents

SHEET TITLE  
**CODE PLAN &  
CODE SITE PLAN**

**G102**  
SHEET OF



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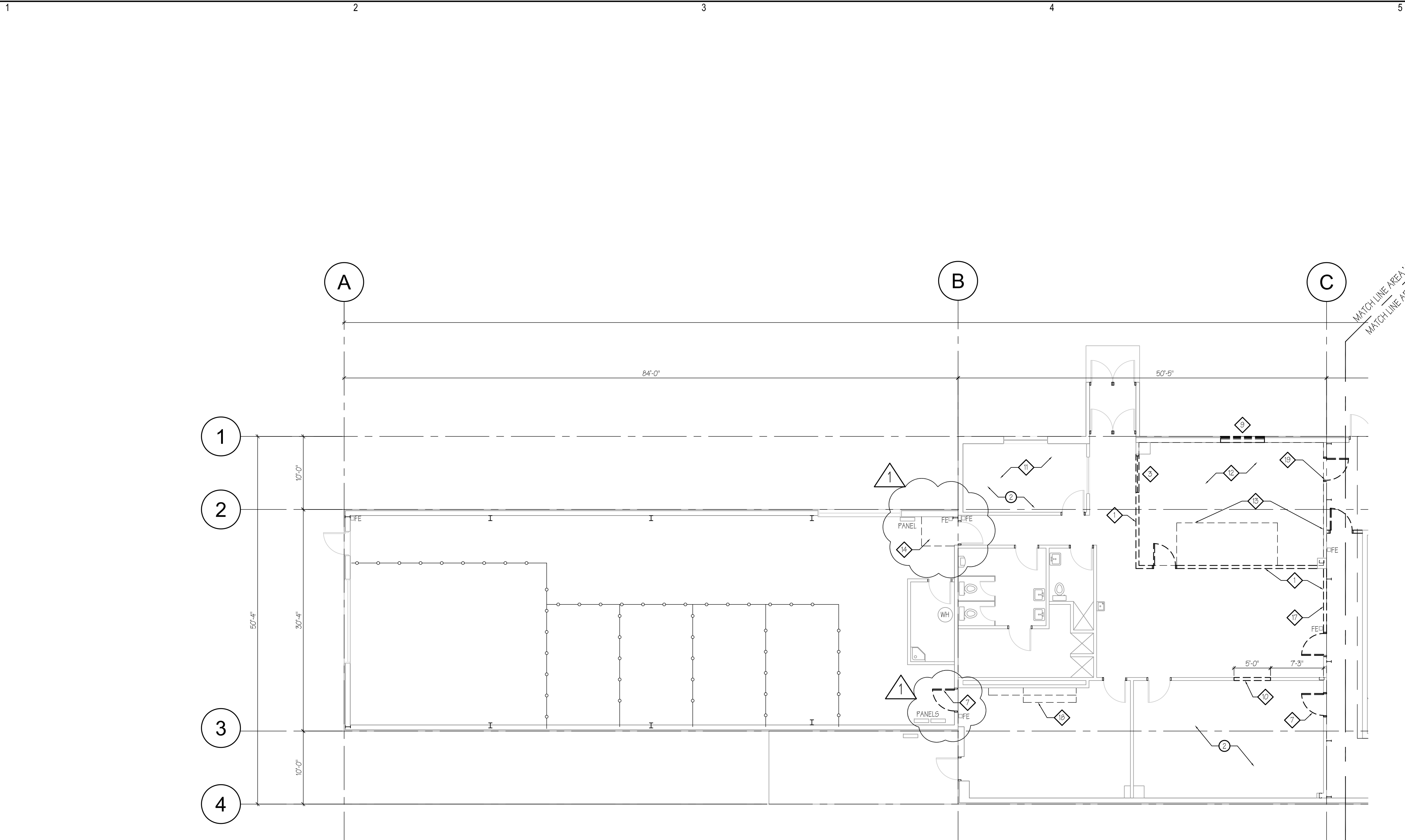
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SHEET TITLE  
**SITE PLAN**

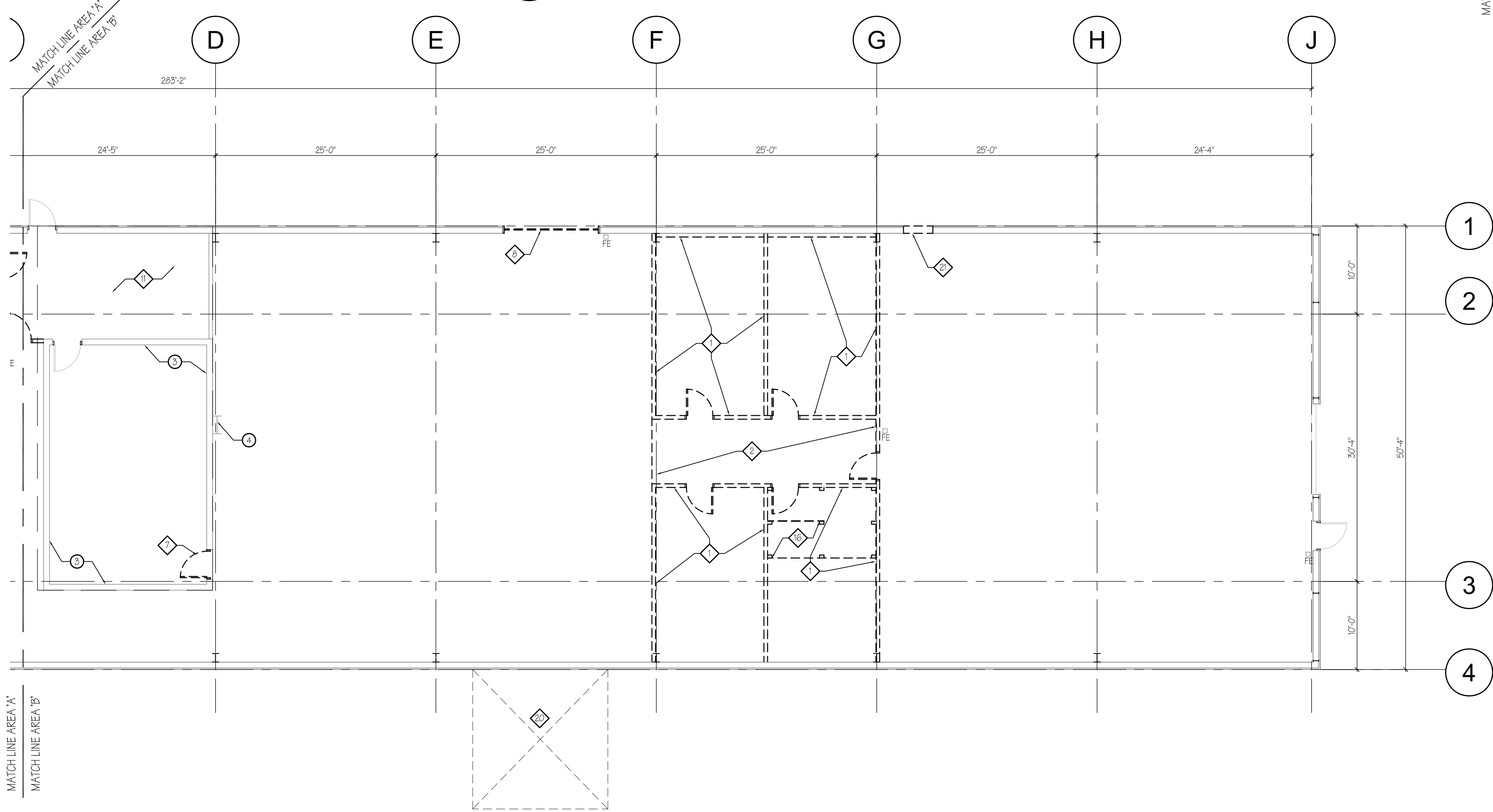
**AS101**  
SHEET 1 OF



E  
D  
C  
B  
A



C3 DEMOLITION PLAN - AREA A (BASE BID)  
SCALE: 1/8"=1'-0"



A3 DEMOLITION PLAN - AREA B (BASE BID)  
SCALE: 1/8"=1'-0"

GENERAL DEMOLITION NOTES

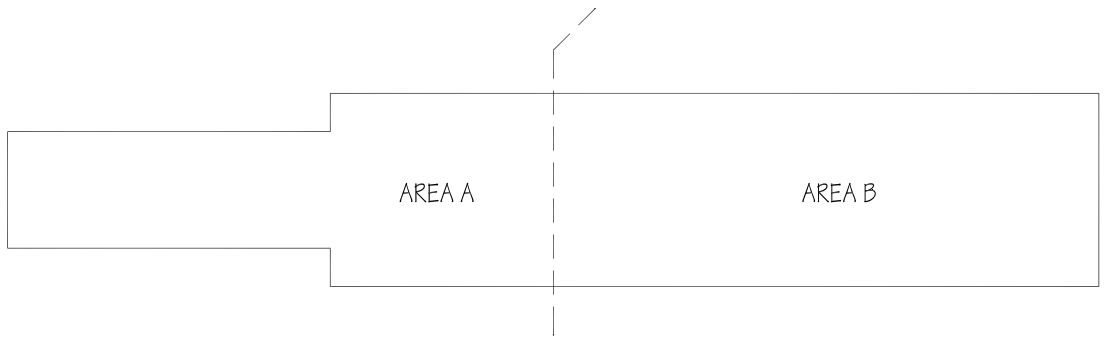
- A. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND PREPARATION WORK AS SHOWN ON DRAWINGS AND AS REQUIRED FOR A COMPLETE AND PROPER JOB. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO VERIFY EXTENT OF REQUIRED DEMOLITION AND PREPARATION WORK. THE CONTRACTOR SHALL REMOVE FROM THE SITE AND DISPOSE OF ALL DEMOLITION ITEMS IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL LAWS.
- B. ALL ITEMS NOT INDICATED FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED. ANY ITEMS DAMAGED SHALL BE REPAIRED TO MATCH THE ADJACENT SURFACE.
- C. GRID DIMENSIONS ARE EXISTING AND SHALL BE FIELD VERIFIED.
- D. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

DEMOLITION KEYED NOTES

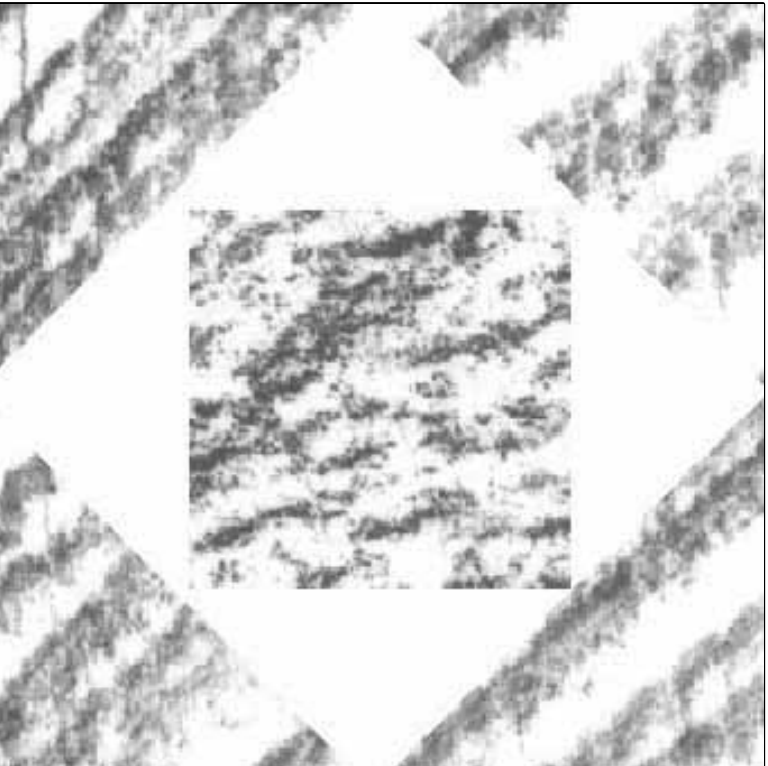
- 1 REMOVE EXISTING GYPSUM BOARD WALLS COMPLETE, INCLUDING DOOR SYSTEMS WHERE OCCURS.
- 2 REMOVE EXISTING GYPSUM BOARD CEILING COMPLETE.
- 3 REMOVE EXISTING WINDOW SYSTEM COMPLETE AND SALVAGE FOR REINSTALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
- 4 NOT USED.
- 5 NOT USED.
- 6 REMOVE EXISTING DOOR SYSTEM COMPLETE.
- 7 REMOVE OVERHEAD DOOR COMPLETE & PREPARE FOR WALL INFILL.
- 8 REMOVE EXISTING WINDOW GLAZING & REPLACE SPANDREL PANELS.
- 9 REMOVE GYPSUM BOARD & METAL FRAMING AS REQUIRED FOR RELOCATED WINDOW. SILL HEIGHT TO MATCH EXISTING.
- 10 REMOVE EXISTING CARPET & RUBBER BASE.
- 11 REMOVE SUSPENDED ACOUSTIC LAY-IN, CARPET, & RUBBER BASE.
- 12 SAW CUT & REMOVE CONCRETE SLAB & PREPARE FOR NEW RECESSED SLAB. SEE AEOI FOR ADDITIONAL INFORMATION.
- 13 SAW CUT & REMOVE CONCRETE SLAB & PREPARE FOR NEW LANDING (BASE BID) OR RAMP (ALT#). SEE AEOI OR AEOZ FOR ADDITIONAL INFORMATION.
- 14 REMOVE WOOD BASE COMPLETE (ALT#).
- 15 REMOVE EXISTING GALVANIZED METAL FENCEPOST & FABRIC. PATCH & REPAIR CONCRETE FLOOR.
- 16 REMOVE EXISTING VCT COMPLETE AT WIDTH WALL & DOOR.
- 17 REMOVE BASE & OVERHEAD CABINETS COMPLETE. SALVAGE SINK AND REINSTALL IN NEW CABINETS. ADJUST EXISTING OUTLETS TO BE ABOVE COUNTER.
- 18 REMOVE DOOR SYSTEM COMPLETE & PREPARE WALL FOR INFILL.
- 19 REMOVE EXISTING VEGETATION AND PREPARE AREA FOR MECHANICAL UNIT, FENCING, AND GRAVEL. SEE ARCHITECTURAL PLANS AND MECHANICAL FOR ADDITIONAL INFORMATION.
- 20 REMOVE EXISTING EXTERIOR SKIN AND INSULATION. CUT HORIZONTAL WIND GIRT REQUIRED FOR NEW DOOR AND FRAME.

KEYED NOTES

- 1 EXISTING GYPSUM BOARD WALL, PATCH & REPAIR.
- 2 RETAIN & PROTECT SUSPENDED ACOUSTIC TILE CEILING.
- 3 EXISTING CMU WALL.
- 4 EXISTING WALL MOUNTED ACCESS LADDER TO MECHANICAL MEZZANINE. RETAIN AND PROTECT.



A6 KEY PLAN  
SCALE: NTS



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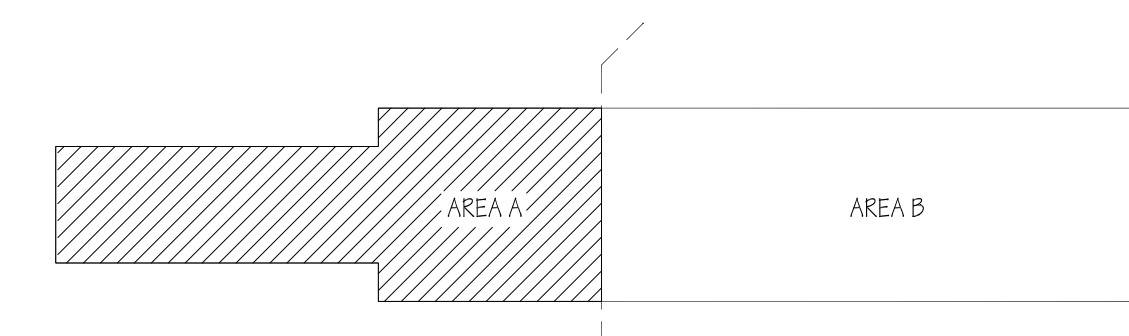
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SHEET TITLE	

DEMOLITION  
FLOOR PLAN  
BASE BID

AD101

SHEET 2 OF



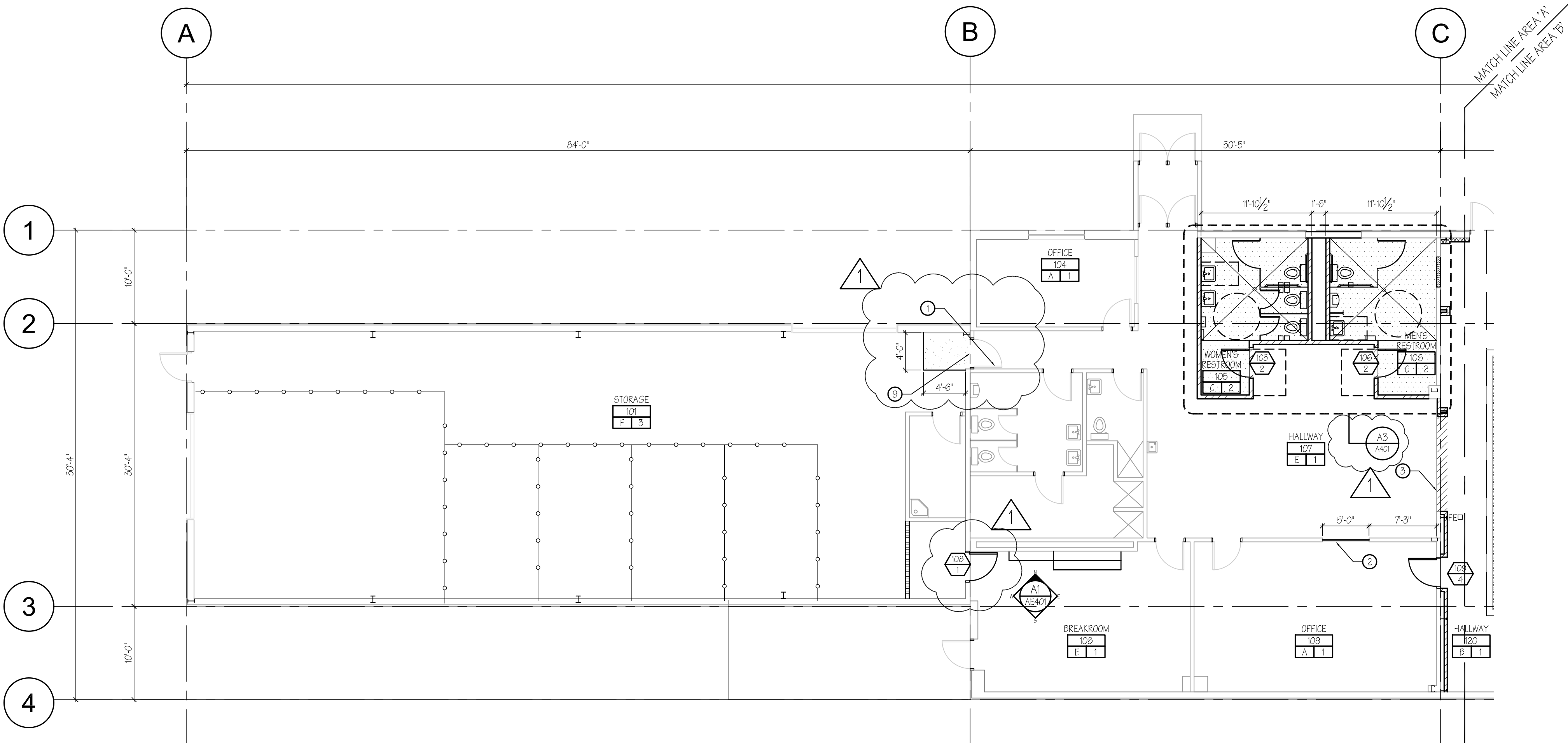


**A6** KEY PLAN  
SCALE: NTS

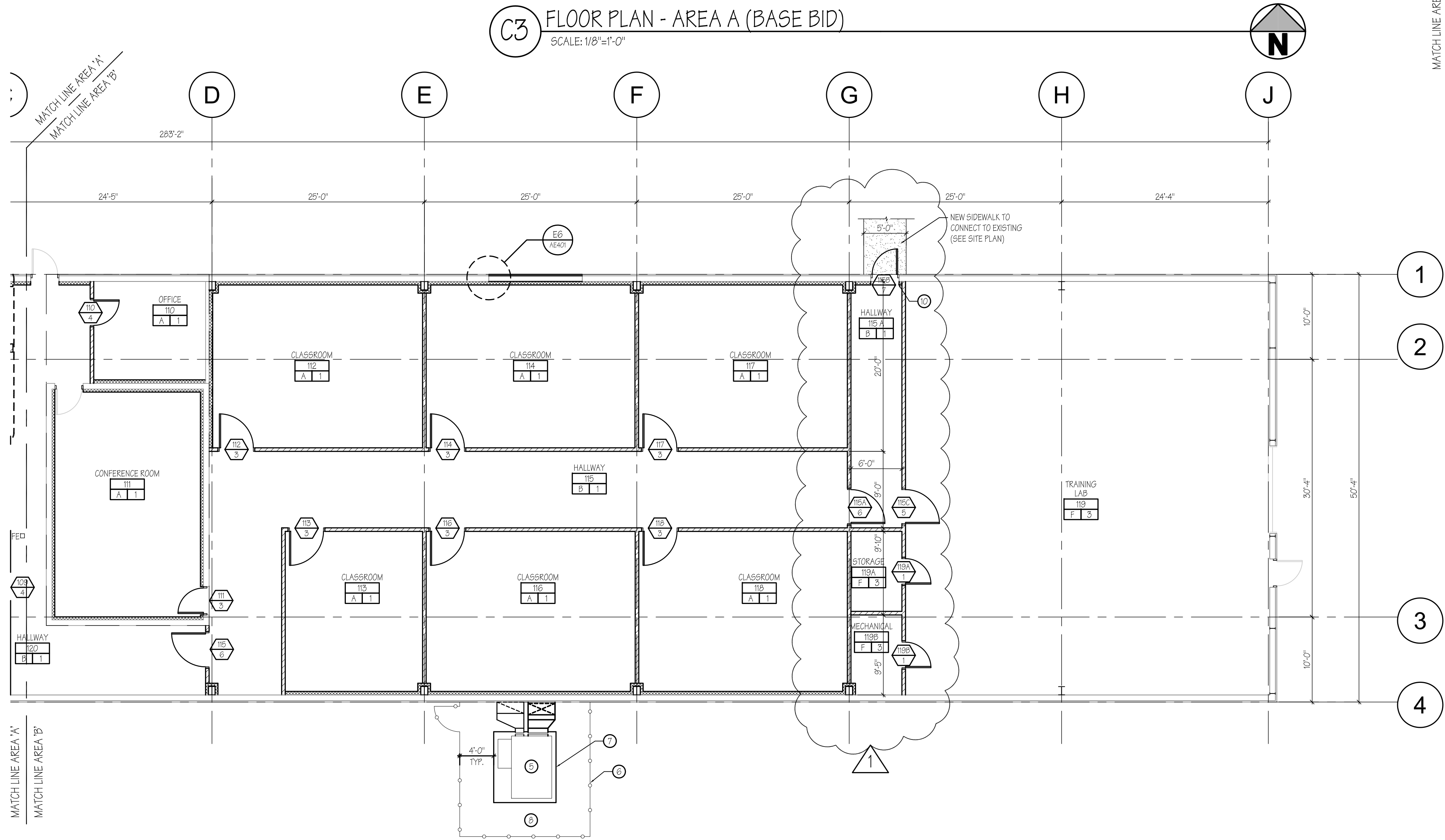
A	SHEET TITLE
	DEMOLITION FLOOR PLAN ALTERNATES
	<b>AD102</b>
	SHEET 3 OF

E  
D  
C  
B  
A

1 2 3 4 5



C3 FLOOR PLAN - AREA A (BASE BID)  
SCALE: 1/8"=1'-0"



A3 FLOOR PLAN - AREA B (BASE BID)  
SCALE: 1/8"=1'-0"

1 2 3 4 5

GENERAL NOTES

- A. ALL DIMENSIONS TAKEN FROM GRID TO CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. THE CURTAIN WALL SYSTEM DIMENSION IS FROM GRID TO THE FACE OF THE SYSTEM.
- B. IF A CONFLICT OCCURS BETWEEN DRAWINGS, DRAWINGS AND SPECIFICATIONS, SPECIFICATION SECTIONS AND DIVISIONS OR BETWEEN OTHER PARTS OF THESE CONSTRUCTION DOCUMENTS OR THESE DOCUMENTS AND ANY CODE REQUIREMENT, THE CONTRACTOR MAY REQUEST CLARIFICATION DURING THE BIDDING PERIOD. OTHERWISE THE MOST STRINGENT REQUIREMENTS SHALL APPLY AND BE PART OF THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- C. ALL WORK AND MATERIALS SHALL BE IN FULL CONFORMANCE WITH THE LATEST FEDERAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES, INCLUDING THEIR MOST RECENT REVISIONS, AMENDMENTS AND INTERPRETATIONS.
- D. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, FOR IMMEDIATE RESOLUTION, ANY NON-CONFORMING CONDITIONS WHICH MAY BE FOUND IN EXISTING FIELD CONDITIONS.
- E. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATE.

WALL SCHEDULE

- A. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD SINGLE SIDE. EXTEND WALL 6" ABOVE CEILING.
- B. 1HR. RATED ASSEMBLY, 3-5/8" METAL FRAMING @ 16" O.C. WITH TYPE "X" 5/8" GYPSUM BOARD EACH SIDE. EXTEND TO DECK ABOVE. SEAL ALL PENETRATIONS.
- C. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. EXTEND WALL TO UNDERSIDE OF ROOF DECK OR STRUCTURE. EXTEND GYPSUM BOARD 6" ABOVE CEILING. PROVIDE SOUND BATT INSULATION. SEE DETAIL D6/AE401.
- D. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD BOTH SIDES AND TOP @ 3'-6" AFF. SEE (ALTERNATE #1). PROVIDE (1) 3/4" X 1/4" TUBE STEEL WITH BASE PLATE AND (2) 3/4" AB. LOCATE AT THE END OF THE WALL.
- F. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD EACH SIDE. EXTEND WALL AND GYPSUM BOARD UP TO DECK. SEE DETAIL D6/AE401.
- G. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD SINGLE SIDE. INFILL EXISTING OPENING COMPLETE. AT RESTROOM 106, PROVIDE GYP. BD. EACH SIDE.
- H. 3-5/8" METAL FRAMING AT 16" O.C. W/ 5/8" GYPSUM BOARD SINGLE SIDE. EXTEND WALL AND GYPSUM BOARD TO UNDERSIDE OF ROOF DECK OR STRUCTURE. (ALTERNATE #2)

FINISH SCHEDULE

FLOOR / BASE FINISH	ROOM NUMBER	WALL FINISH
A. CARPET TILE W/ RUBBER BASE.	10000	A 1 2
B. VINYL COMPOSITION TILE (VCT) W/ COVED RUBBER BASE.		
C. CERAMIC MOSAIC TILE. W/ TILE BASE.		
D. WALK-OFF CARPET.		
E. EXISTING VCT & RUBBER BASE, CLEAN & WAX.		
F. EXISTING CONCRETE.		
1. PAINTED GYPSUM BOARD.		
2. CERAMIC TILE MESH ON WET WALL. GYPSUM BOARD & EPOXY PAINT ON ALL OTHER WALLS.		
3. EXISTING.		

LEGEND

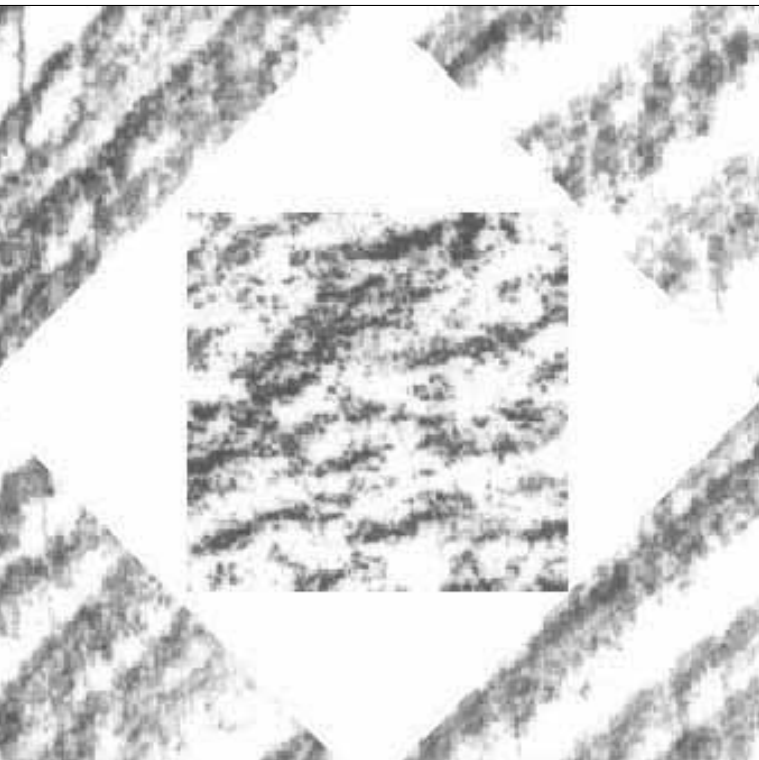
- RECESSED FLOOR SLAB. SEE FLOOR FINISHES FOR ADDITIONAL INFORMATION.
- CONCRETE FOR NEW LANDING (BASE BID) OR RAMP (ALTERNATE #1) MAXIMUM SLOPE 1:2.
- EXISTING FIRE EXTINGUISHER.

KEYED NOTES

1. PAINT EXISTING DOOR AND FRAME.
2. RELOCATED WINDOW, SILL HEIGHT TO MATCH EXISTING, PAINT FRAME.
3. EDGE OF EXISTING VCT TILE.
4. EXISTING WALL MOUNTED ACCESS LADDER TO MECHANICAL MEZZANINE, PAINT.
5. NEW MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. CHAIN LINK FENCE WITH 3'-0" GATE.
7. 4" CONCRETE PAD OVER GRANULAR BASE. COORDINATE SIZE WITH MECHANICAL UNIT.
8. 6" GRANULAR MATERIAL OVER LANDSCAPE FILTER FABRIC.
9. PROVIDE 3 #4 DOWELS BY 12" O.C. 6" EMBED EACH WAY.
10. PROVIDE #4 STEEL ANGLE AND PLATE TO EACH JAMB. SIZE PLATE ACCORDINGLY. WELD TO STEEL ANGLE AND UPPER HORIZONTAL WIND GIRT AND ANCHOR TO FOUNDATION. SEE DETAIL E2/AE401.



A6 KEY PLAN  
SCALE: 1/600"=1'-0"



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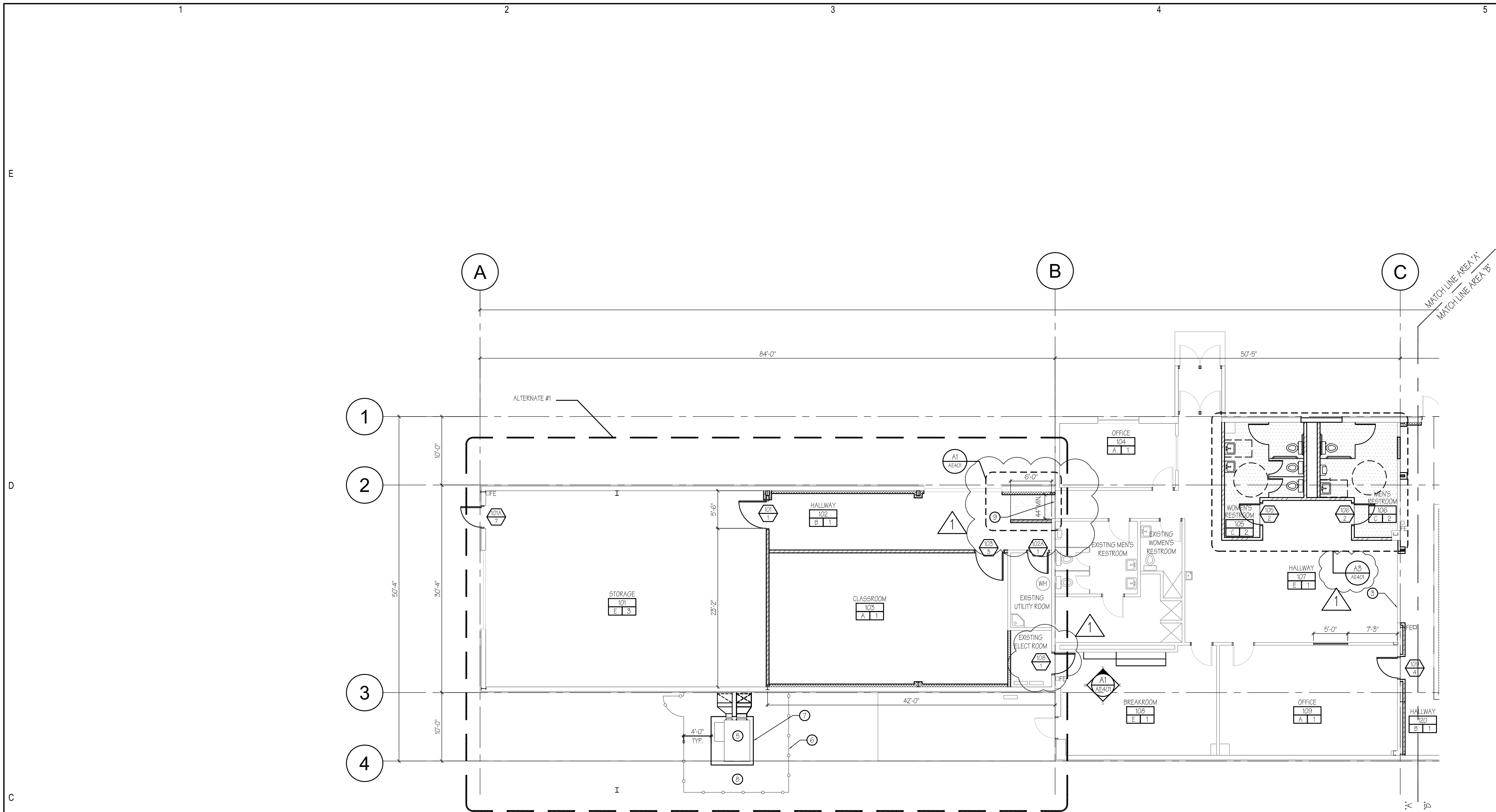
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HFSA PROJECT NO:	0763.01
CAD DWG FILE NO:	
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DESIGNED BY:	
DWG TYPE:	Architectural
ARCHITECTURAL PHASE:	Construction Documents

SHEET TITLE

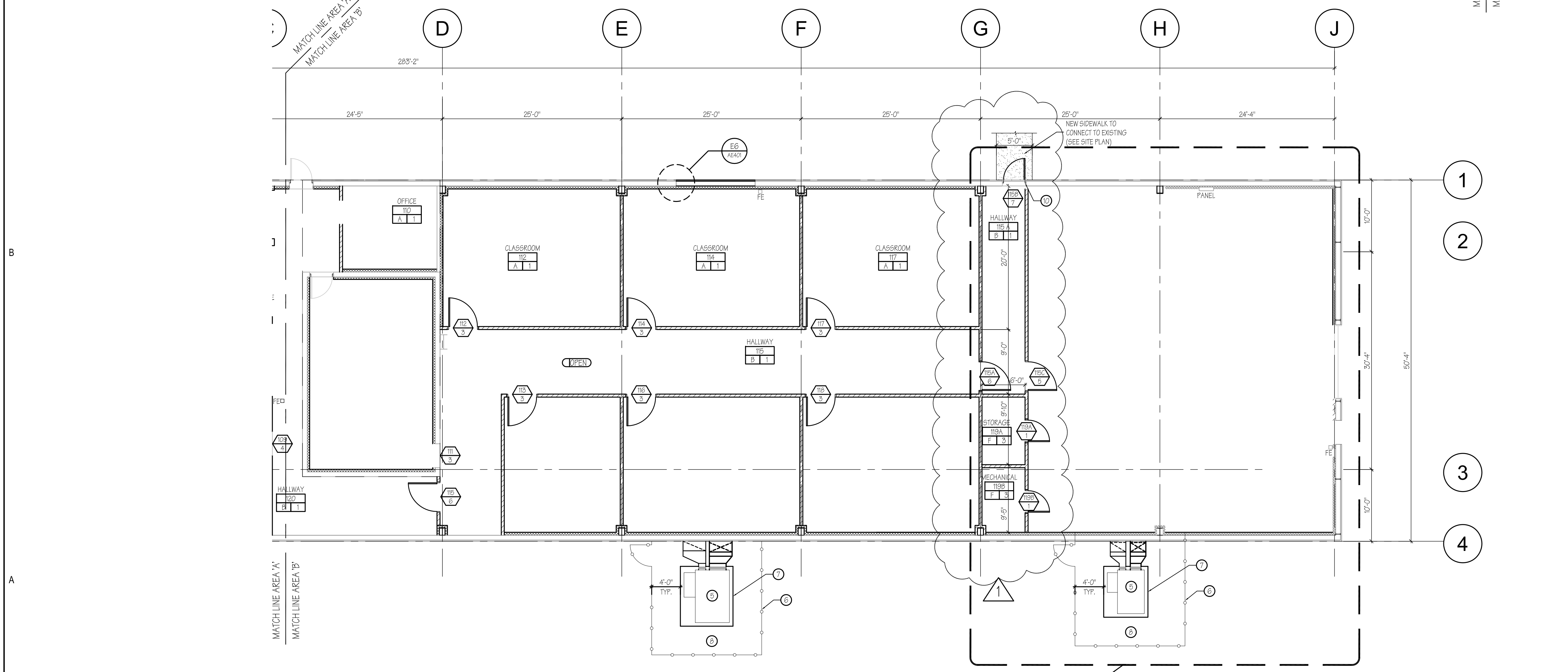
FLOOR PLAN  
BASE BID

**AE101**

SHEET 4 OF



C3 FLOOR PLAN - AREA A (ALTERNATES)  
SCALE: 1/8"=1'-0"



A3 FLOOR PLAN - AREA B (ALTERNATES)  
SCALE: 1/8"=1'-0"

GENERAL NOTES

WALL SCHEDULE

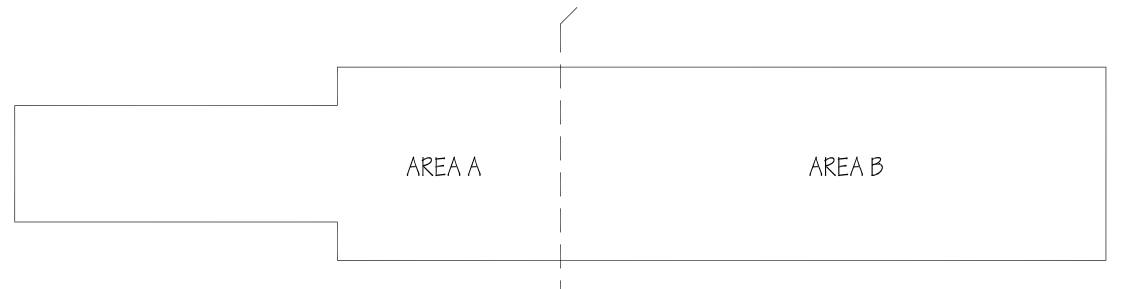
FINISH SCHEDULE

FLOOR / BASE

WALL / WAINSCOT

LEGEND

KEYED NOTES



A6 KEY PLAN  
SCALE: 1/600"=1'-0"



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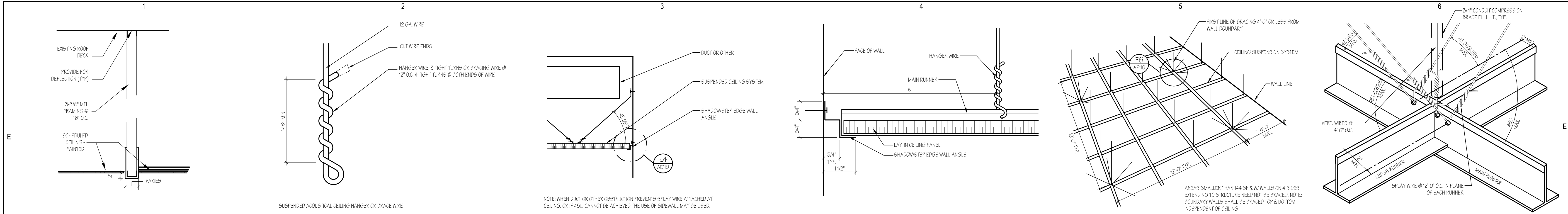
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ARCHITECTURAL PHASE:	Construction Documents

SHEET TITLE  
FLOOR PLAN  
ALTERNATES

AE102  
SHEET 5 OF





E1 CEILING DETAIL NTS

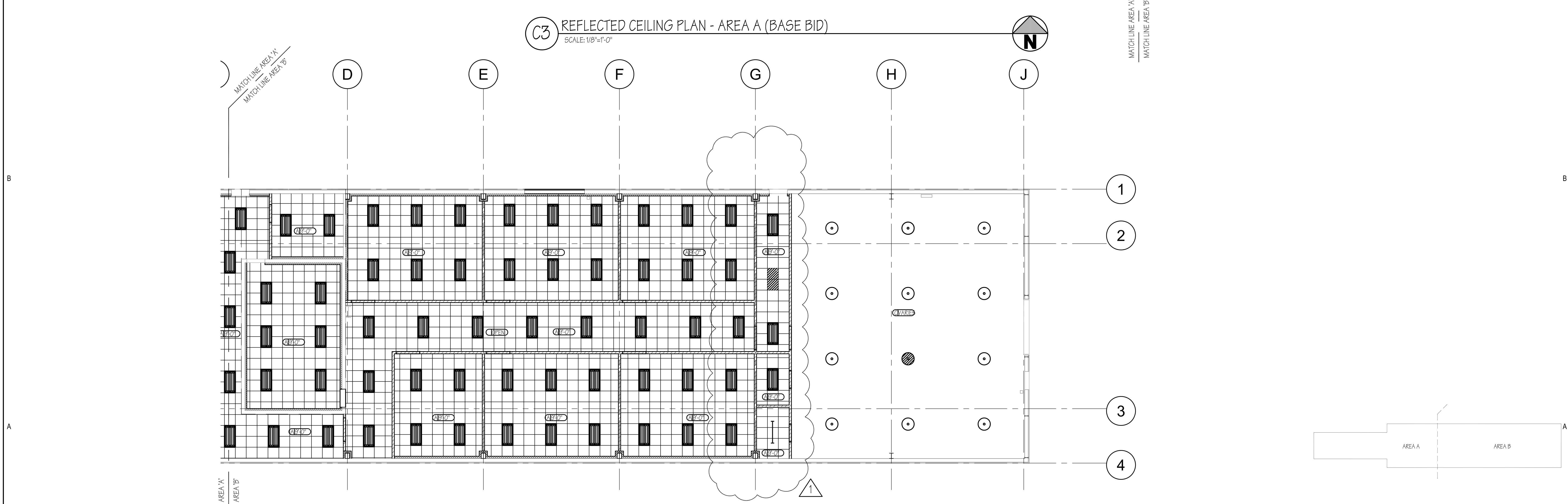
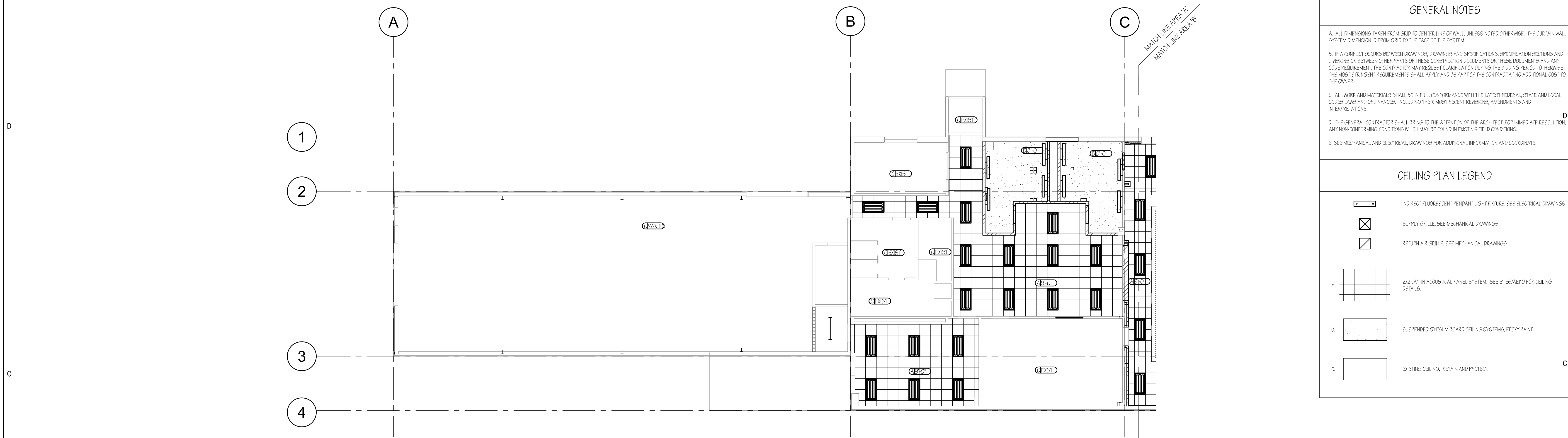
E2 HANGER WIRE DETAIL NTS

E3 SUSPENDED CEILING EDGE DETAIL SCALE: 6"=1'-0"

E4 SUSPENDED CEILING DETAIL NTS

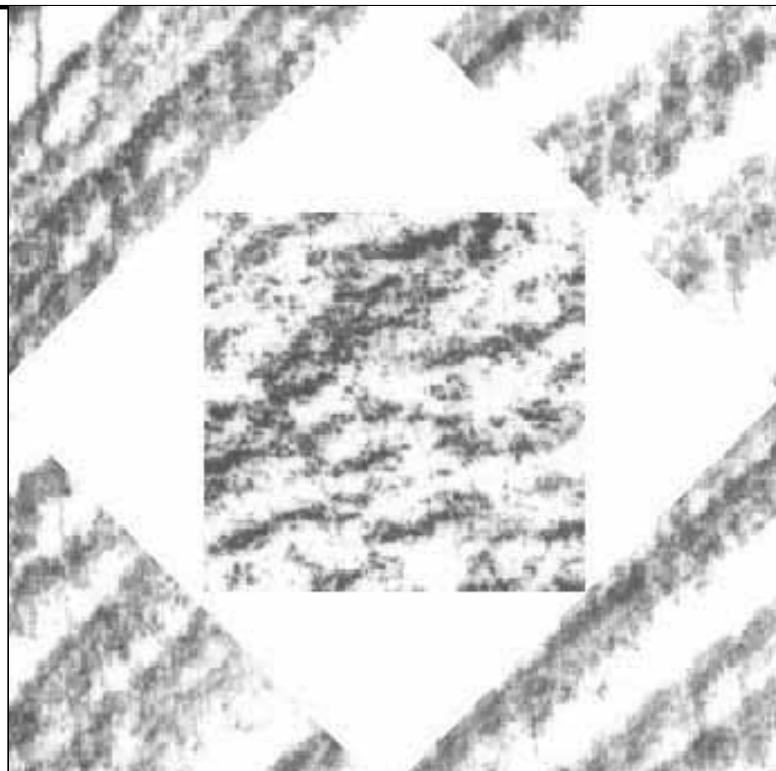
E5 SUSPENDED CEILING DETAIL NTS

E6 CEILING DETAIL NTS



A3 REFLECTED CEILING PLAN - AREA B (BASE BID) SCALE: 1/8"=1'-0"

A6 KEY PLAN SCALE: 1/600"=1'-0"



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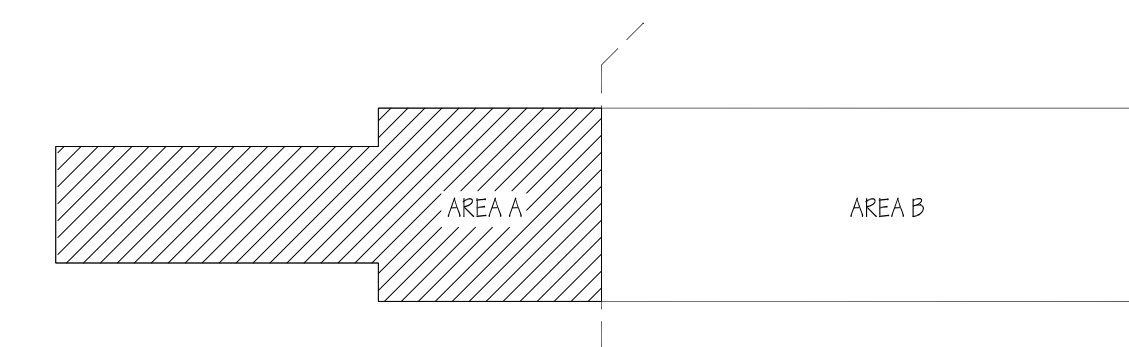
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SHEET TITLE  
**REFLECTED  
CEILING PLAN  
BASE BID  
AE110**  
SHEET 6 OF



CEILING PLAN LEGEND

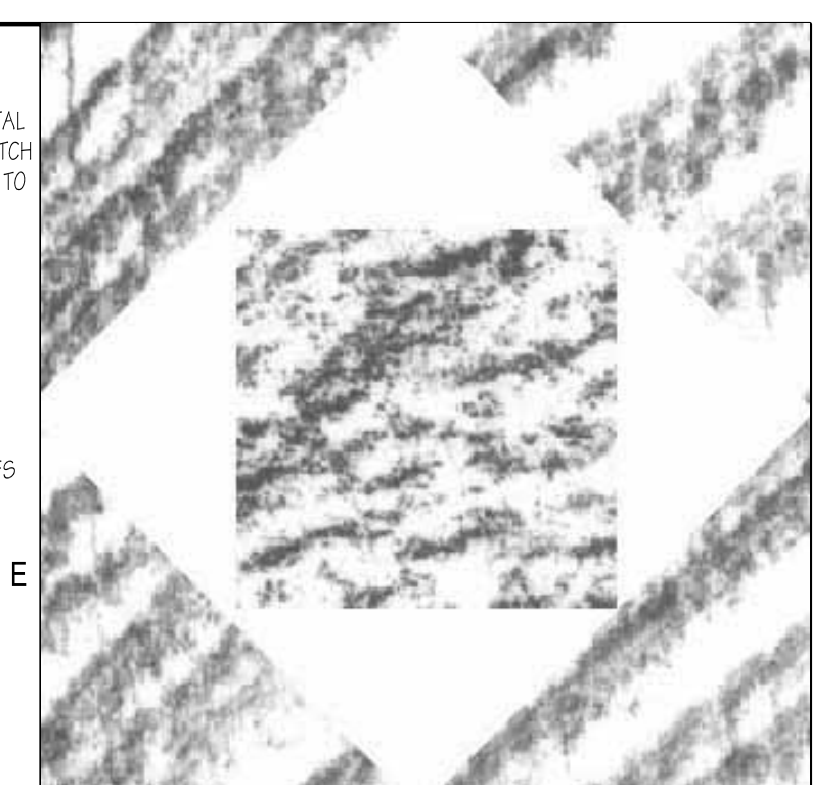
- A6 KEY PLAN**  
SCALE: 1/600' = 1'-0"

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**AE111**

SHEET 7 OF



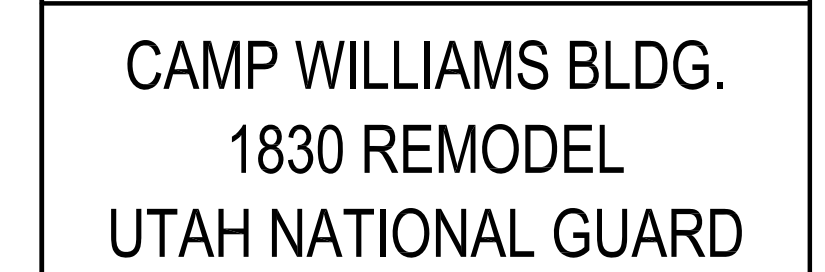


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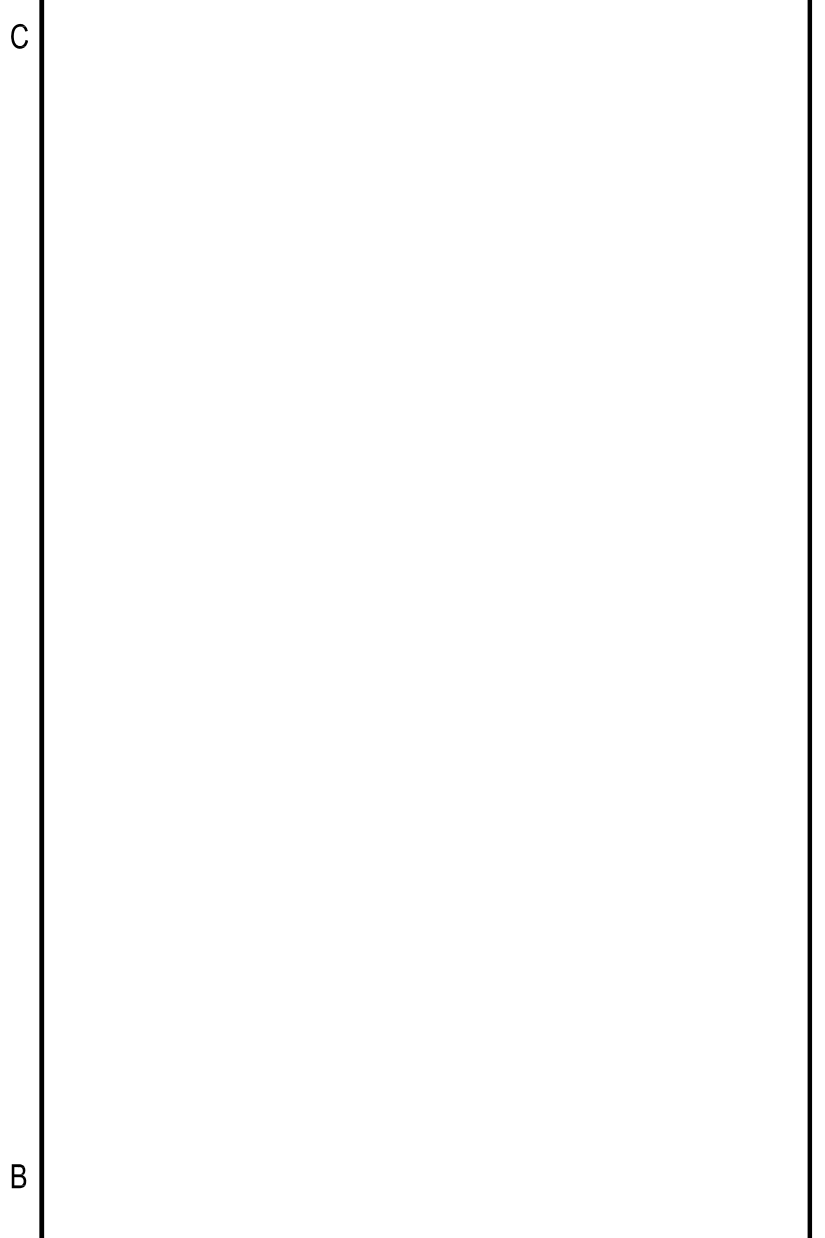
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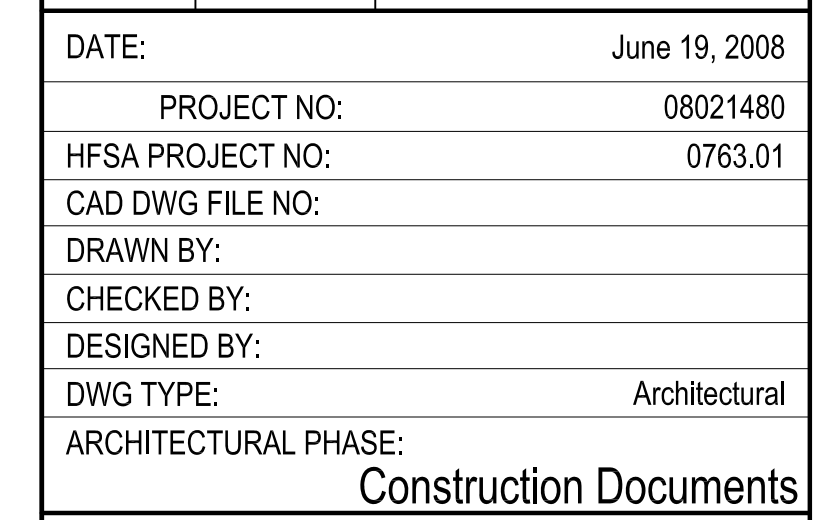
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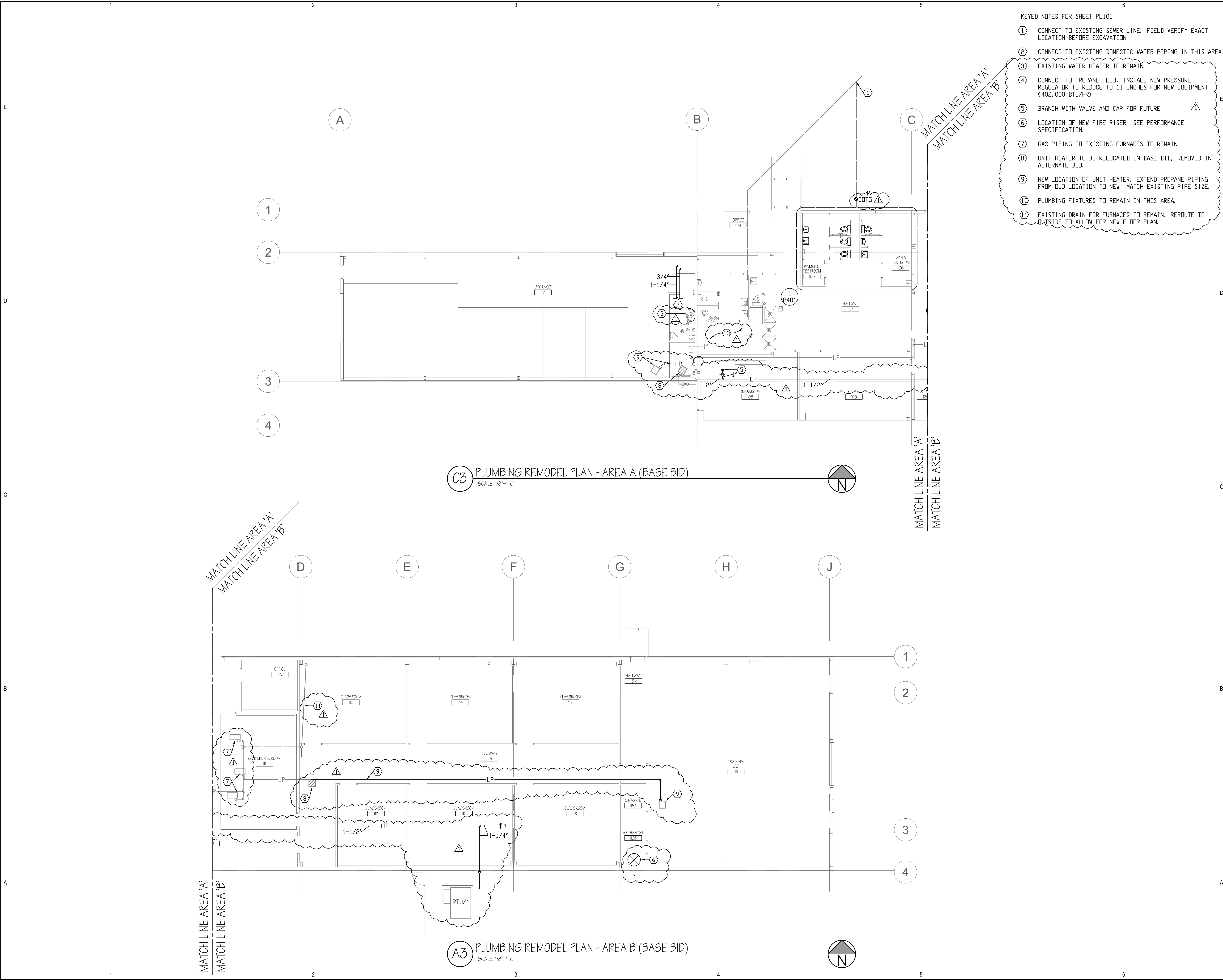


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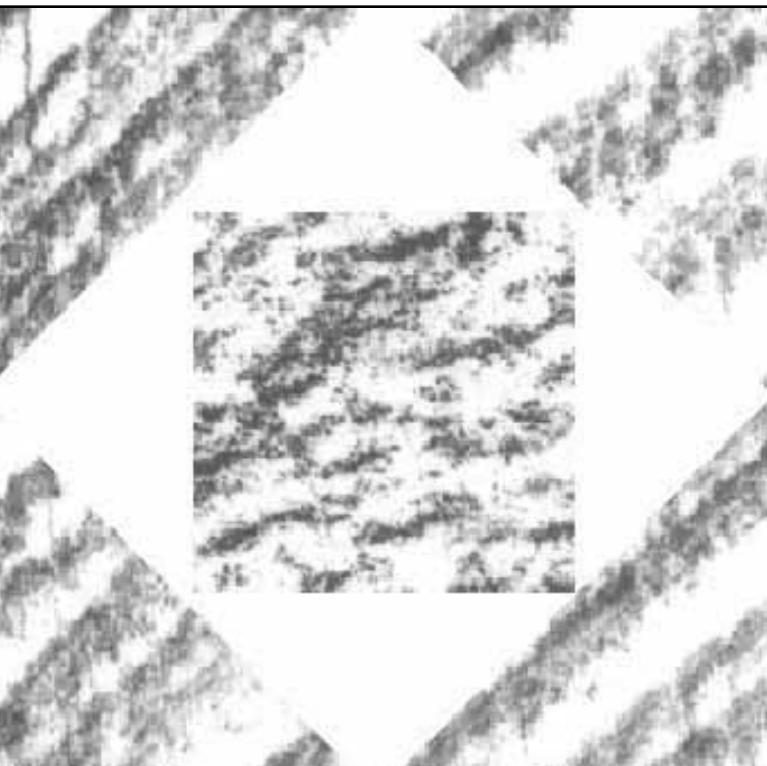


A	SHEET TITLE
	INTERIOR ELEVATION DETAILS
	<b>AE401</b>
	SHEET 8 OF



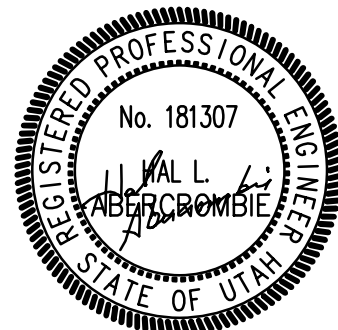


- KEYED NOTES FOR SHEET PL101
- ① CONNECT TO EXISTING SEWER LINE. FIELD VERIFY EXACT LOCATION BEFORE EXCAVATION.
  - ② CONNECT TO EXISTING DOMESTIC WATER PIPING IN THIS AREA.
  - ③ EXISTING WATER HEATER TO REMAIN.
  - ④ CONNECT TO PROPANE FEED, INSTALL NEW PRESSURE REGULATOR TO REDUCE TO 11 INCHES FOR NEW EQUIPMENT (<402,000 BTU/HR).
  - ⑤ BRANCH WITH VALVE AND CAP FOR FUTURE.
  - ⑥ LOCATION OF NEW FIRE RISER. SEE PERFORMANCE SPECIFICATION.
  - ⑦ GAS PIPING TO EXISTING FURNACES TO REMAIN.
  - ⑧ UNIT HEATER TO BE RELOCATED IN BASE BID, REMOVED IN ALTERNATE BID.
  - ⑨ NEW LOCATION OF UNIT HEATER. EXTEND PROPANE PIPING FROM OLD LOCATION TO NEW. MATCH EXISTING PIPE SIZE.
  - ⑩ PLUMBING FIXTURES TO REMAIN IN THIS AREA.
  - ⑪ EXISTING DRAIN FOR FURNACES TO REMAIN. REROUTE TO OUTSIDE TO ALLOW FOR NEW FLOOR PLAN.



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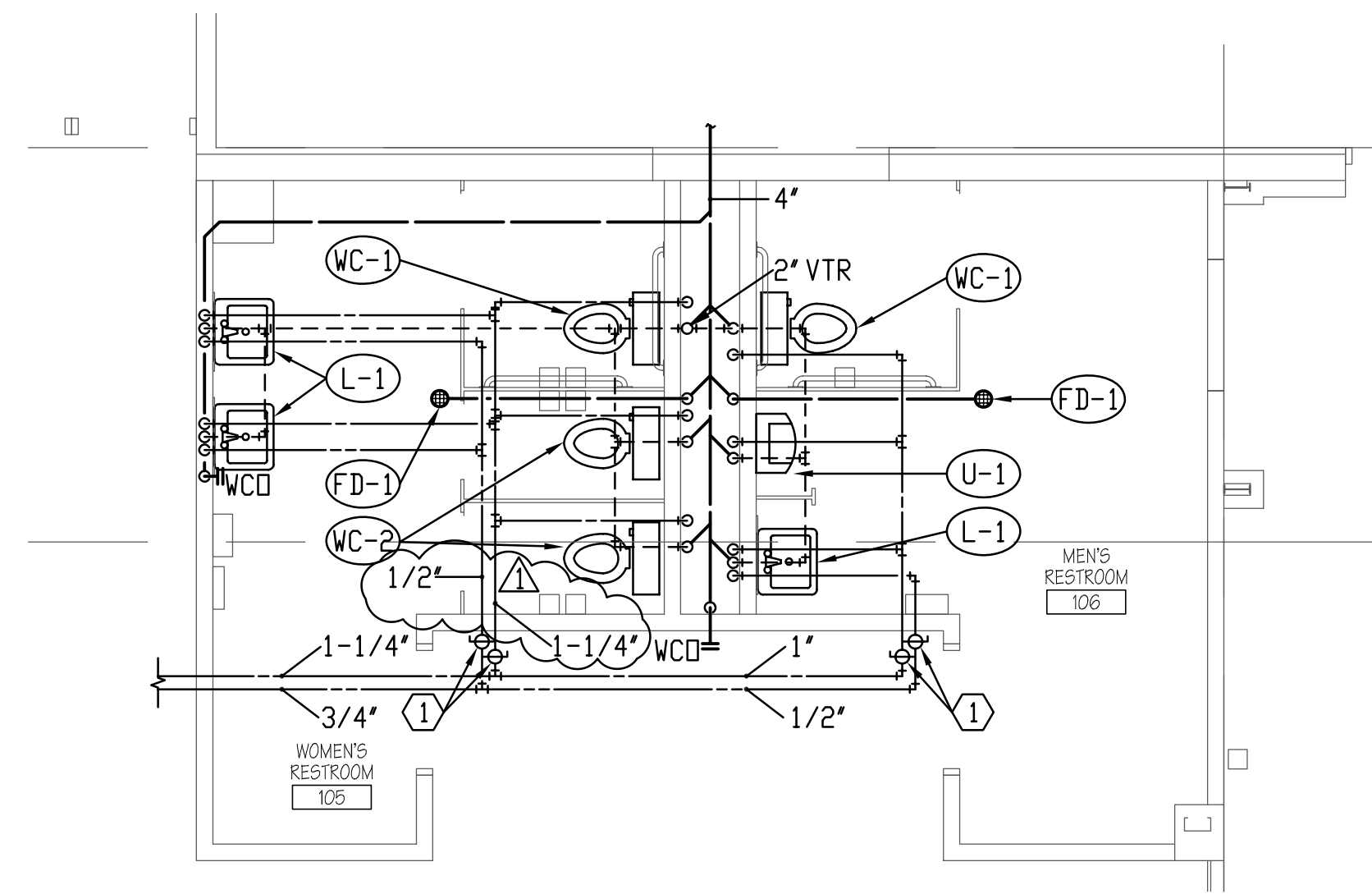
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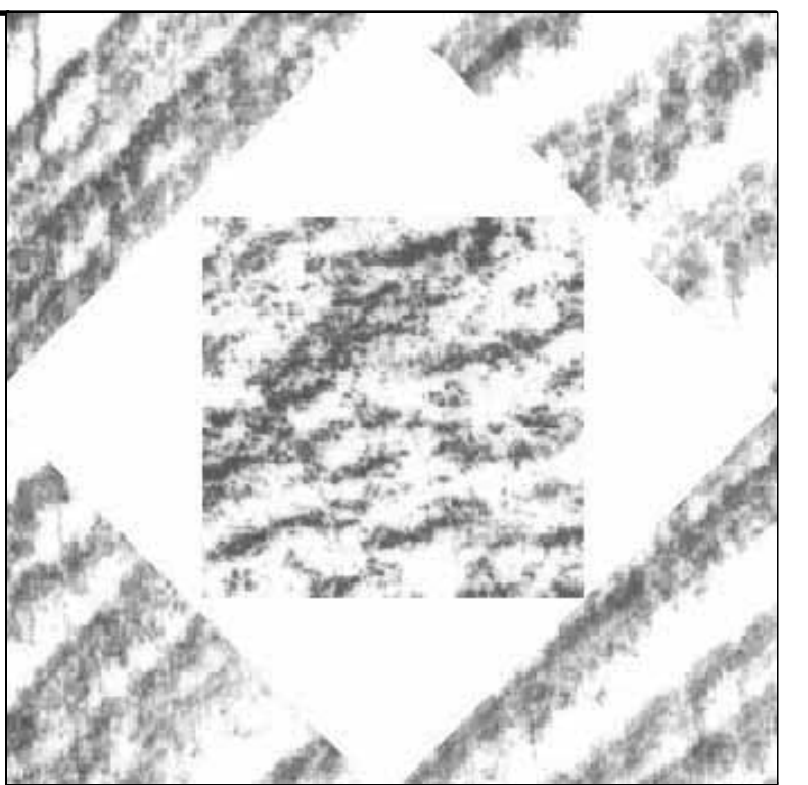
**PLUMBING**  
**REMODEL PLANS**  
**BASE BID**  
**PL101**  
SHEET 1 OF 9



① ISOLATION VALVES IN CEILING SPACE.



1 LARGE SCALE RESTROOM REMODEL PLAN  
SCALE 1/4"=1'-0"

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1830 REMODEL

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DRAWN BY:	BDA
CHECKED BY:	BDA

CHECKED BY:	BDA
DESIGNED BY:	HLA

DWG TYPE:	MECHANICAL
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ARCHITECTURAL PHASE:  
CONSTRUCTION DOCUMENTS

CONSTRUCTION DOCUMENTS

SHEET TITLE

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**PLUMBING**

PLUMBING

LARGE SCALE

LARGE SCALE

## PLAN

## PLAN

**D401**

P401

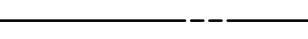
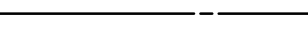

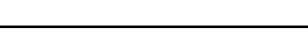
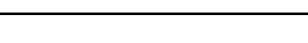

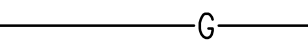
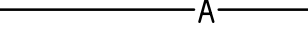
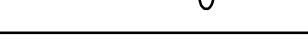
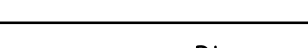
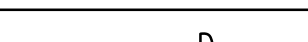



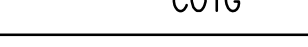

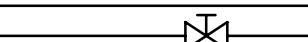
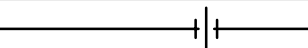





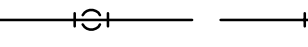

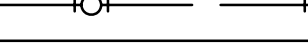

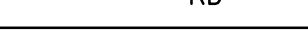
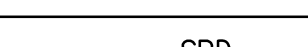

SHEET 3 OF 9

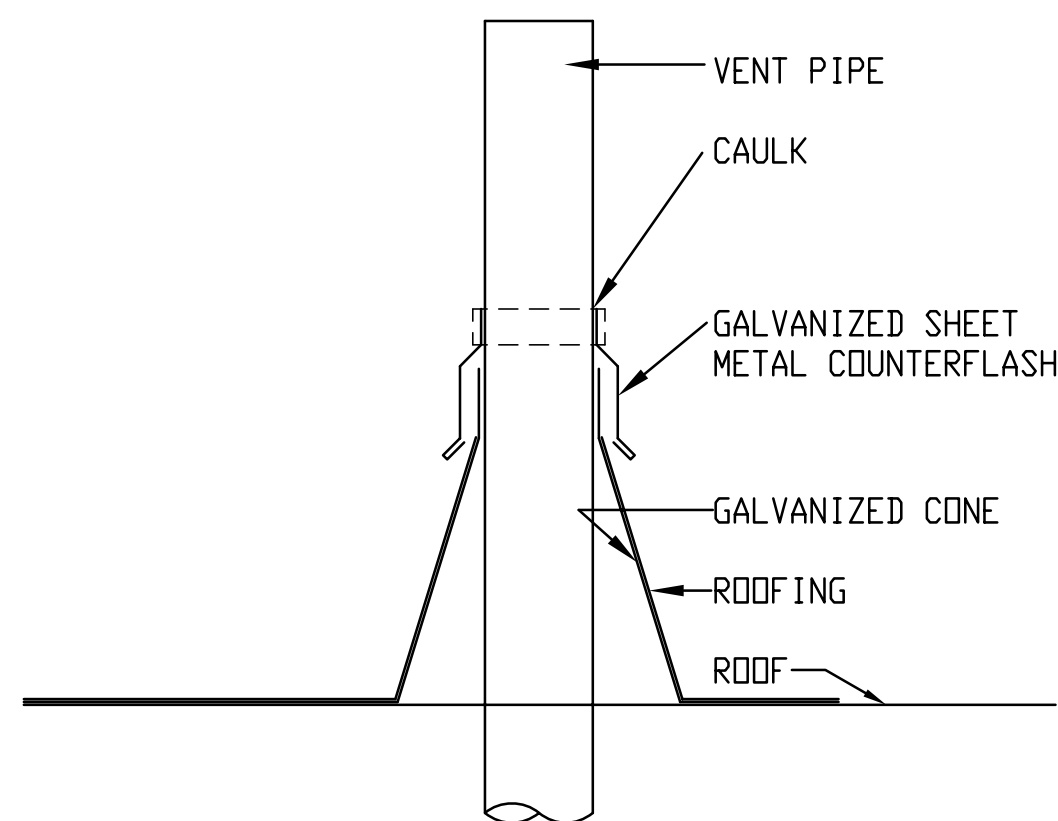
SHEET 9 OF 9



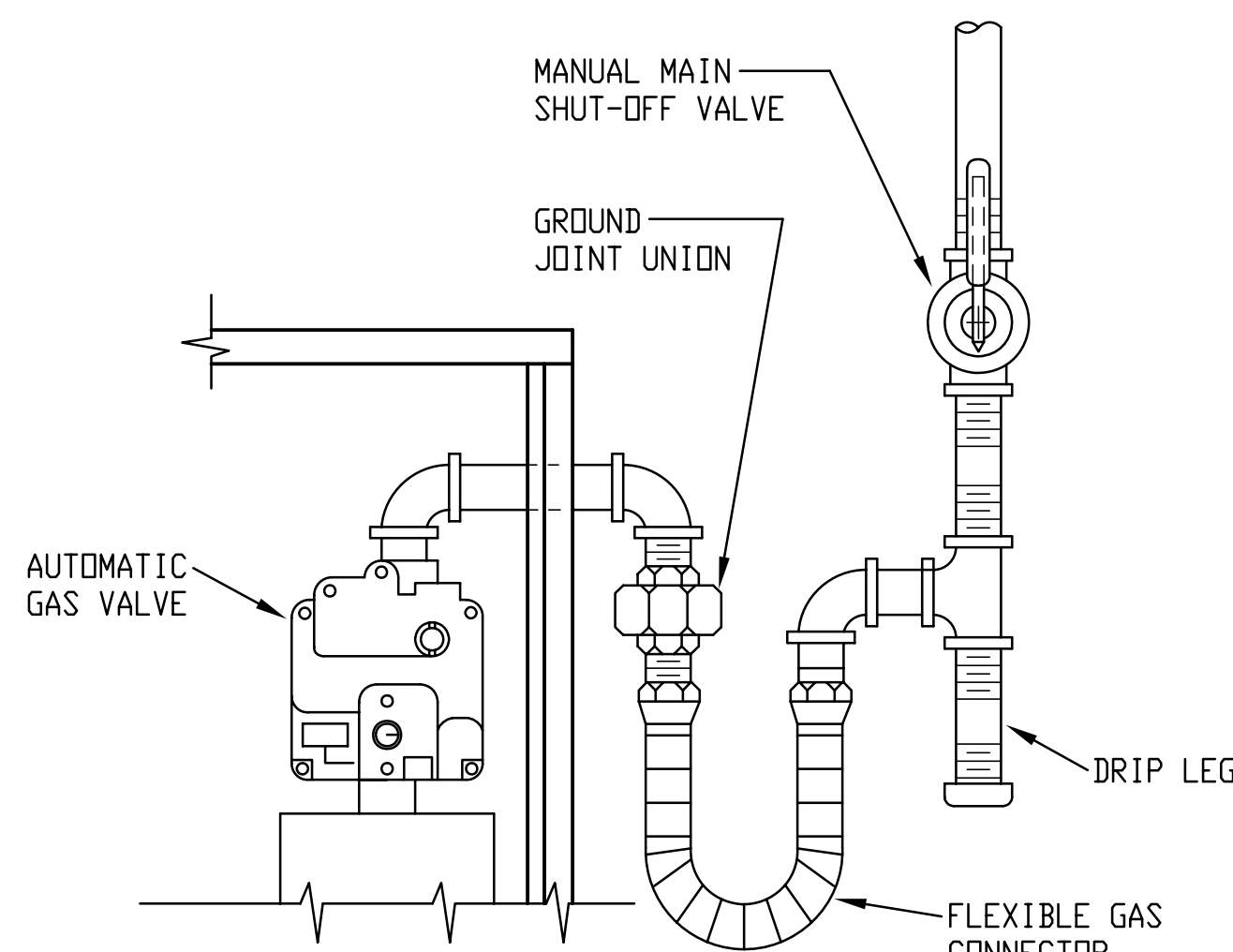
PLUMBING FIXTURE SCHEDULE							
SYMBOL	FIXTURE	TRAP	WASTE	VENT	H. W.	C. W.	DESCRIPTION
(L-1)	LAVATORY (ADA)	1-1/4"	1-1/2"	1-1/4"	1/2"	1/2"	WALL MOUNT ①
(WC-1)	WATER CLOSET (ADA)	INT	4"	2"	-	1/2"	FLUSH TANK
(WC-2)	WATER CLOSET	INT	4"	2"	-	1/2"	FLUSH TANK
(FD-1)	FLOOR DRAIN	2"	2"	2"	-	-	PROVIDE WITH TRAP PRIMER
(U-1)	URINAL	INT	3"	2"	-	3/4"	
( )							

① PROVIDE WITH TEMPERING VALVE.

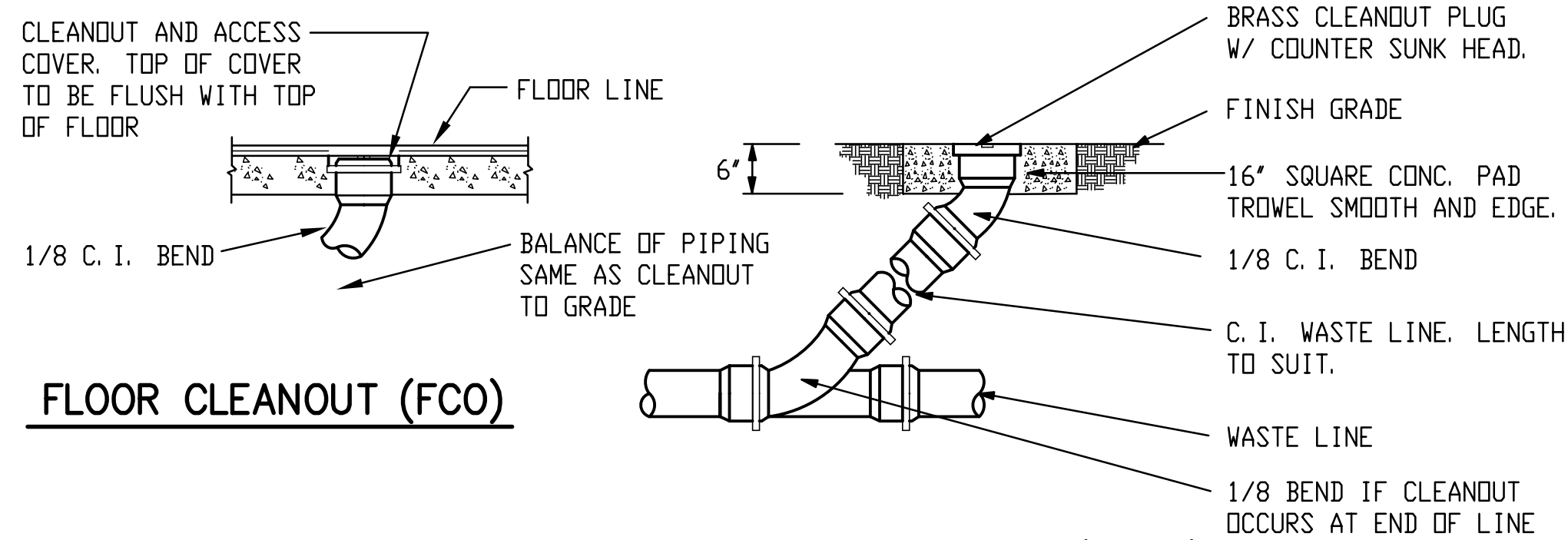
HOT WATER LINE	
COLD WATER LINE	
HOT WATER RECIRCULATION LINE	
VENT LINE	
WASTE LINE (ABOVE GRADE OR FLOOR)	
WASTE LINE (BELOW GRADE OR FLOOR)	
GREASE WASTE LINE	 GW
GAS LINE	 G
COMPRESSED AIR LINE	 A
OXYGEN LINE	 O
VACUUM LINE	 V
DEIONIZED WATER LINE	 DI
DRAIN LINE	 D
VENT THRU ROOF	 VTR
WALL CLEAN OUT	 WCO
CLEAN OUT	 CO
CLEAN OUT TO GRADE	 COTG
FLOOR CLEAN OUT	 FCO
BALL VALVE	
GATE VALVE	
UNION	
GAS COCK VALVE	
PRESSURE REGULATOR	
DROP	 
RISE	 
ROOF DRAIN (ABOVE GRADE OR FLOOR)	 RD
ROOF DRAIN (BELOW GRADE OR FLOOR)	 RD
SECONDARY ROOF DRAIN	 SRD



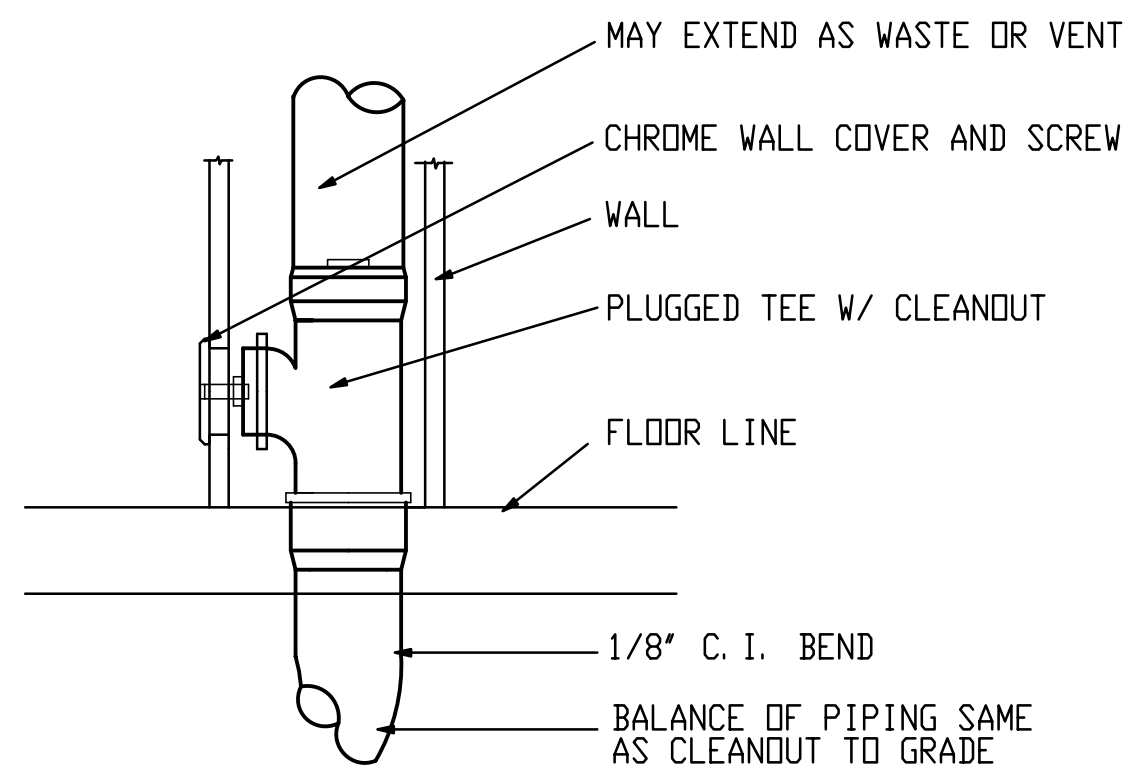
## 1 VENT PIPE THRU ROOF DETAIL



## 2 GAS LINE CONNECTION



### 3 CLEANOUT DETAILS



## 4 WALL CLEANOUT DETAIL

This micrograph shows a cross-section of a polymer blend with a diamond-shaped phase morphology. The central diamond-shaped region is a darker, more textured phase, while the surrounding regions are lighter and more uniform. The interface between the two phases is clearly visible.

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CAMP WILLIAMS BLDG.  
1830 REMODEL  
UTAH NATIONAL GUARD

[illegible]

DATE: JUNE 19, 2008

PROJECT NO:	08021480
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HFSA PROJECT NO:	0763.01
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CAD DWG FILE NO:	08097
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DRAWN BY:	BDA
CHECKED BY:	BDA

CHECKED BY:	SDA
DESIGNED BY:	HLA

DWG TYPE:	MECHANICAL
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ARCHITECTURAL PHASE: \_\_\_\_\_

## CONSTRUCTION DOCUMENTS

SHEET TITLE
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## PLUMBING

\_\_\_\_\_

## DETAILS, LEGEND

## 2. COUVERTURE

## & SCHEDULE

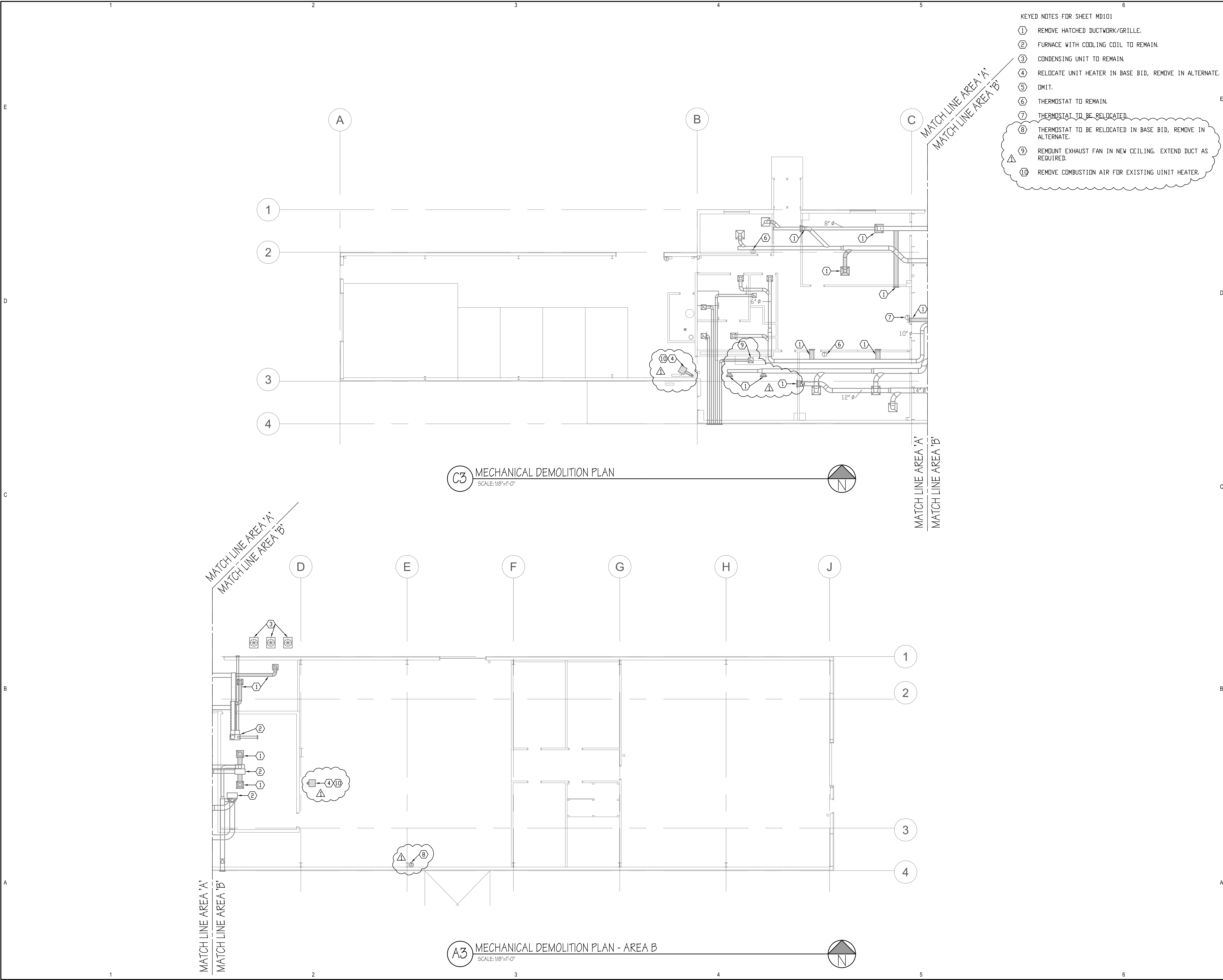
**DECI**

**P501**

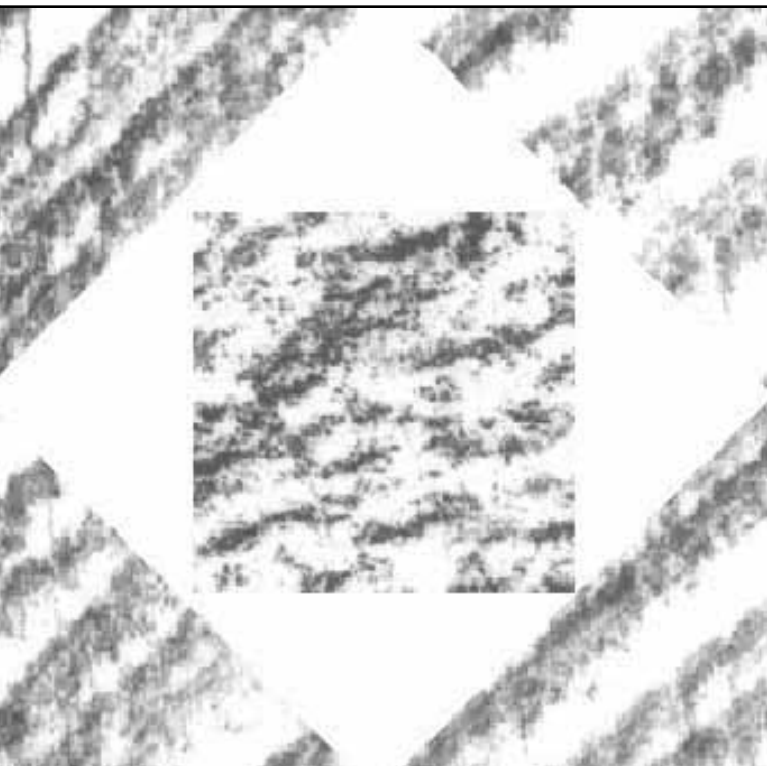
1991

SHEET 4 OF 9

[illegible]



- KEYED NOTES FOR SHEET MD101
- 1 REMOVE HATCHED DUCTWORK/GRILLE.
  - 2 FURNACE WITH COOLING COIL TO REMAIN.
  - 3 CONDENSING UNIT TO REMAIN.
  - 4 RELOCATE UNIT HEATER IN BASE BID, REMOVE IN ALTERNATE.
  - 5 OMIT.
  - 6 THERMOSTAT TO REMAIN.
  - 7 THERMOSTAT TO BE RELOCATED.
  - 8 THERMOSTAT TO BE RELOCATED IN BASE BID, REMOVE IN ALTERNATE.
  - 9 REMOUNT EXHAUST FAN IN NEW CEILING. EXTEND DUCT AS REQUIRED.
  - 10 REMOVE COMBUSTION AIR FOR EXISTING UNIT HEATER.



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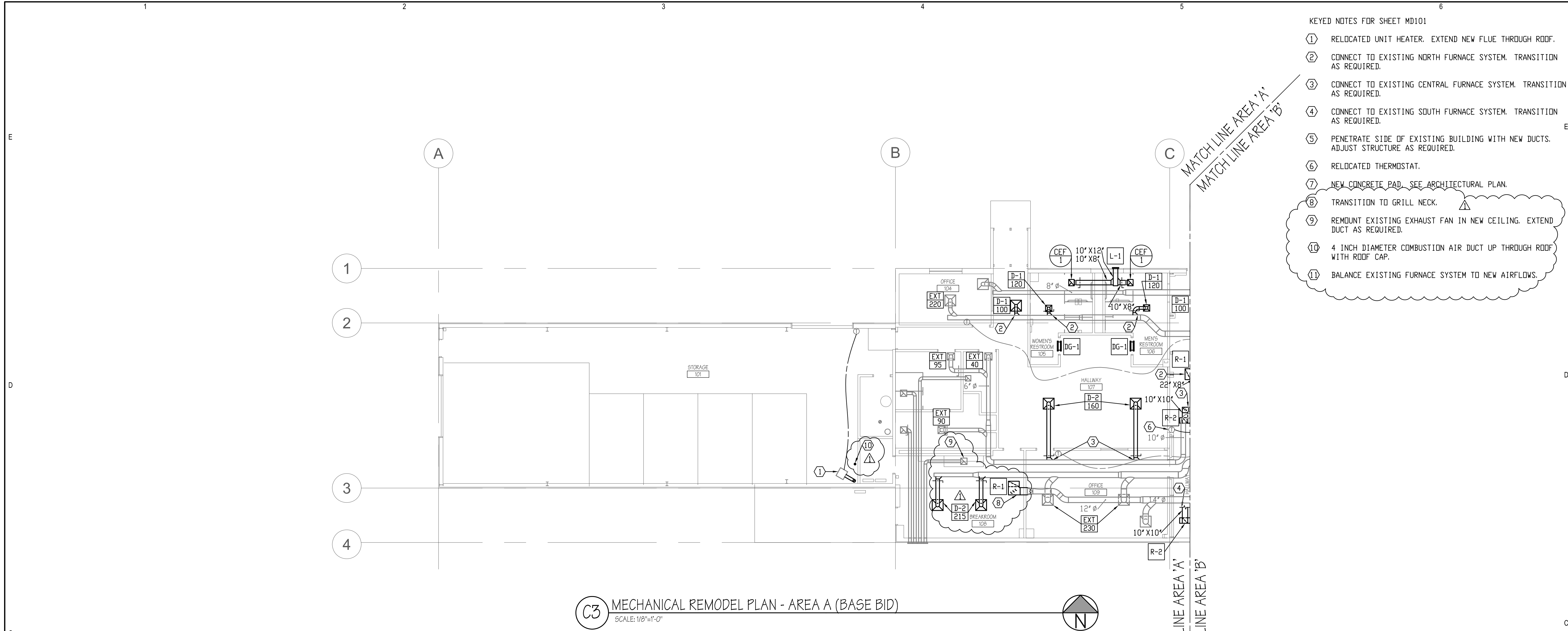


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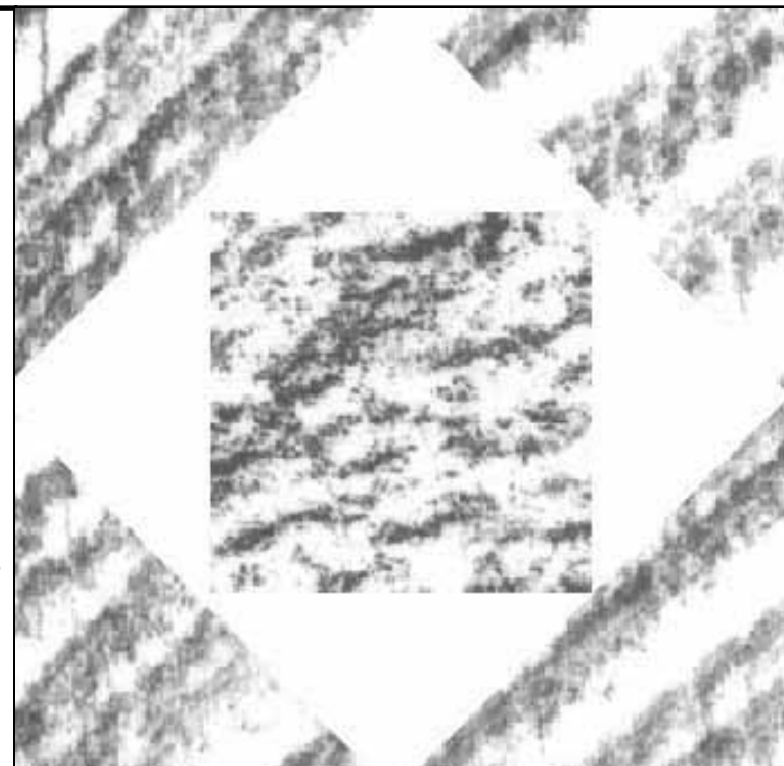
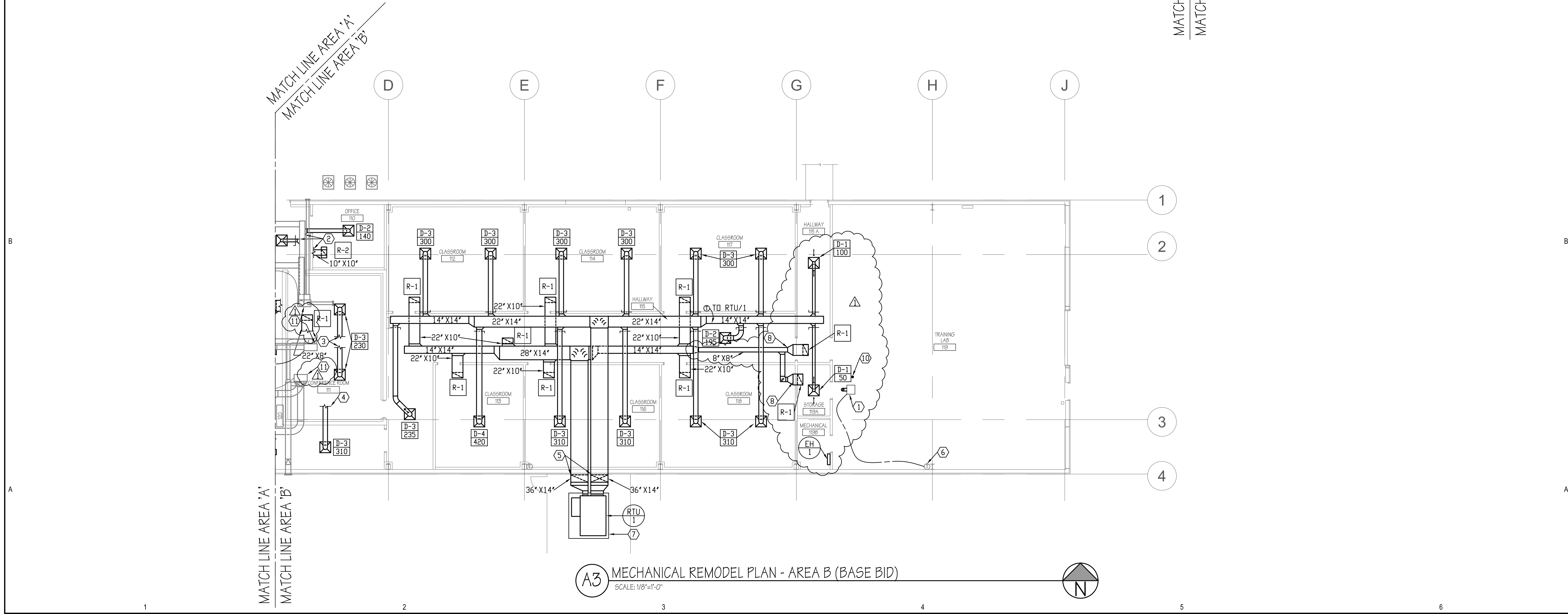
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△	07-25-08	PLAN REVIEW

DATE:	JUNE 19, 2008
PROJECT NO:	08021480
HFSA PROJECT NO:	0763.01
CAD DWG FILE NO:	08097
DRAWN BY:	BDA
CHECKED BY:	BDA
DESIGNED BY:	HLA
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS
SHEET TITLE	

**MECHANICAL  
DEMOLITION  
PLANS**  
**MD101**  
SHEET 5 OF 9



- KEYED NOTES FOR SHEET MD101
- 1 RELOCATED UNIT HEATER. EXTEND NEW FLUE THROUGH ROOF.
  - 2 CONNECT TO EXISTING NORTH FURNACE SYSTEM. TRANSITION AS REQUIRED.
  - 3 CONNECT TO EXISTING CENTRAL FURNACE SYSTEM. TRANSITION AS REQUIRED.
  - 4 CONNECT TO EXISTING SOUTH FURNACE SYSTEM. TRANSITION AS REQUIRED.
  - 5 PENETRATE SIDE OF EXISTING BUILDING WITH NEW DUCTS. ADJUST STRUCTURE AS REQUIRED.
  - 6 RELOCATED THERMOSTAT.
  - 7 NEW CONCRETE PAD. SEE ARCHITECTURAL PLAN.
  - 8 TRANSITION TO GRILL NECK.
  - 9 REMOUNT EXISTING EXHAUST FAN IN NEW CEILING. EXTEND DUCT AS REQUIRED.
  - 10 4 INCH DIAMETER COMBUSTION AIR DUCT UP THROUGH ROOF WITH ROOF CAP.
  - 11 BALANCE EXISTING FURNACE SYSTEM TO NEW AIRFLOWS.



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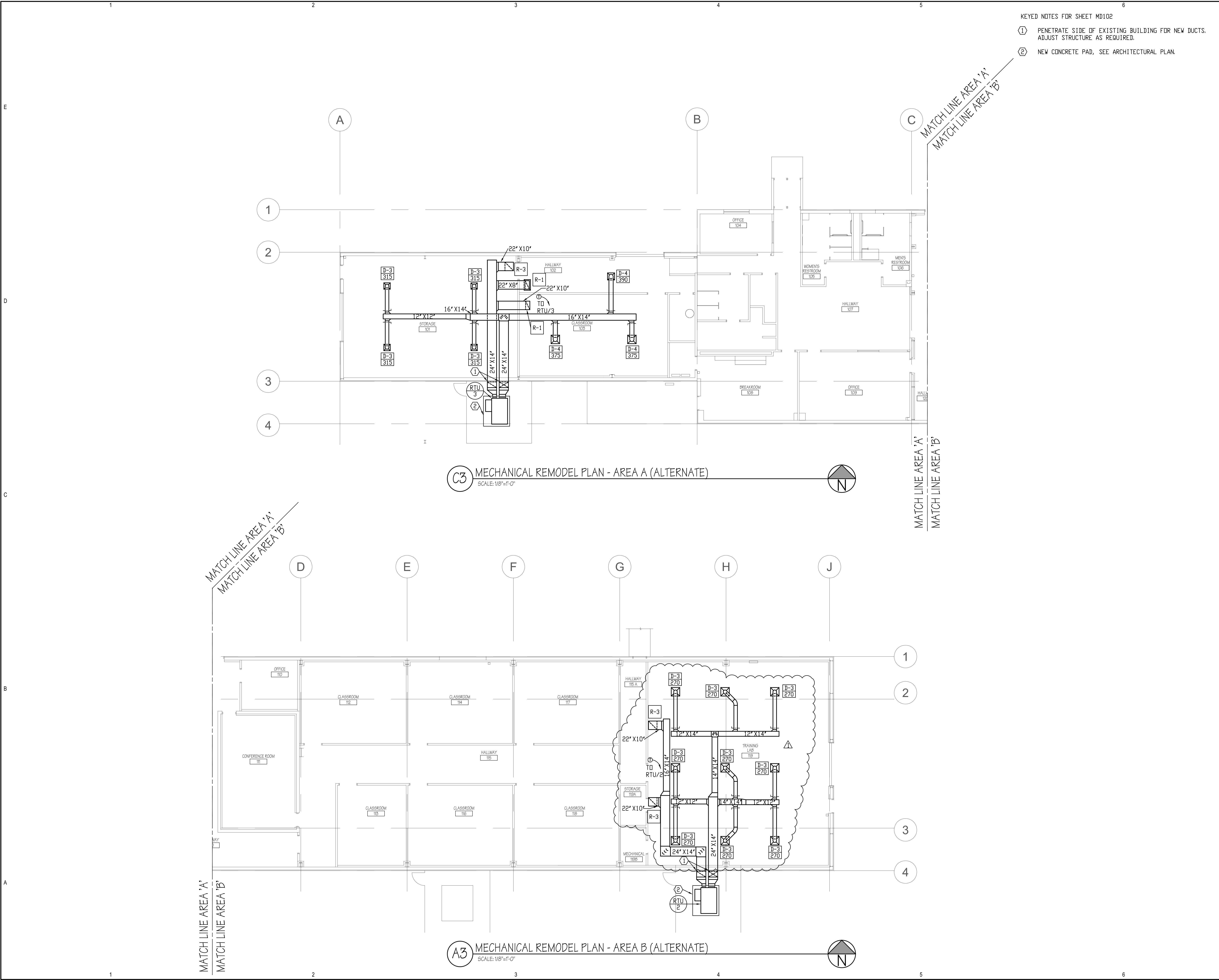
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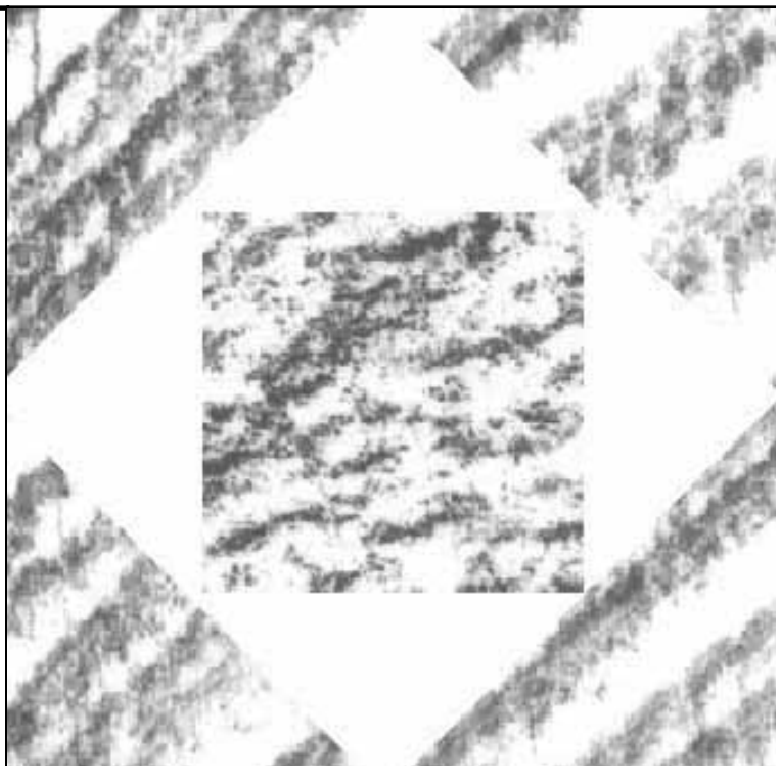
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DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS
SHEET TITLE	

**MECHANICAL  
REMODEL PLANS  
BASE BID  
MH101**  
SHEET 6 OF 9





- KEYED NOTES FOR SHEET MD102
- ① PENETRATE SIDE OF EXISTING BUILDING FOR NEW DUCTS. ADJUST STRUCTURE AS REQUIRED.
  - ② NEW CONCRETE PAD, SEE ARCHITECTURAL PLAN.



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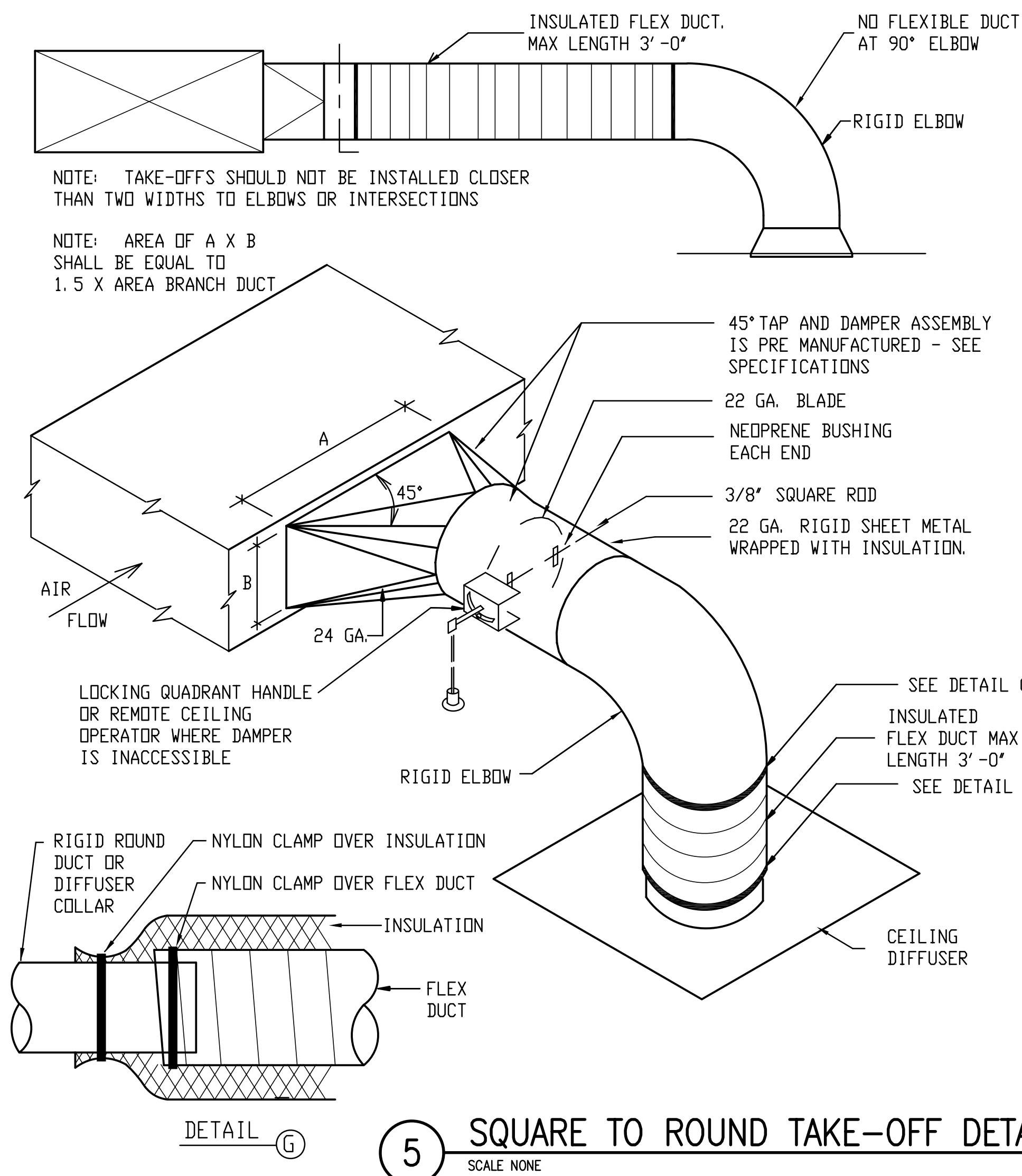
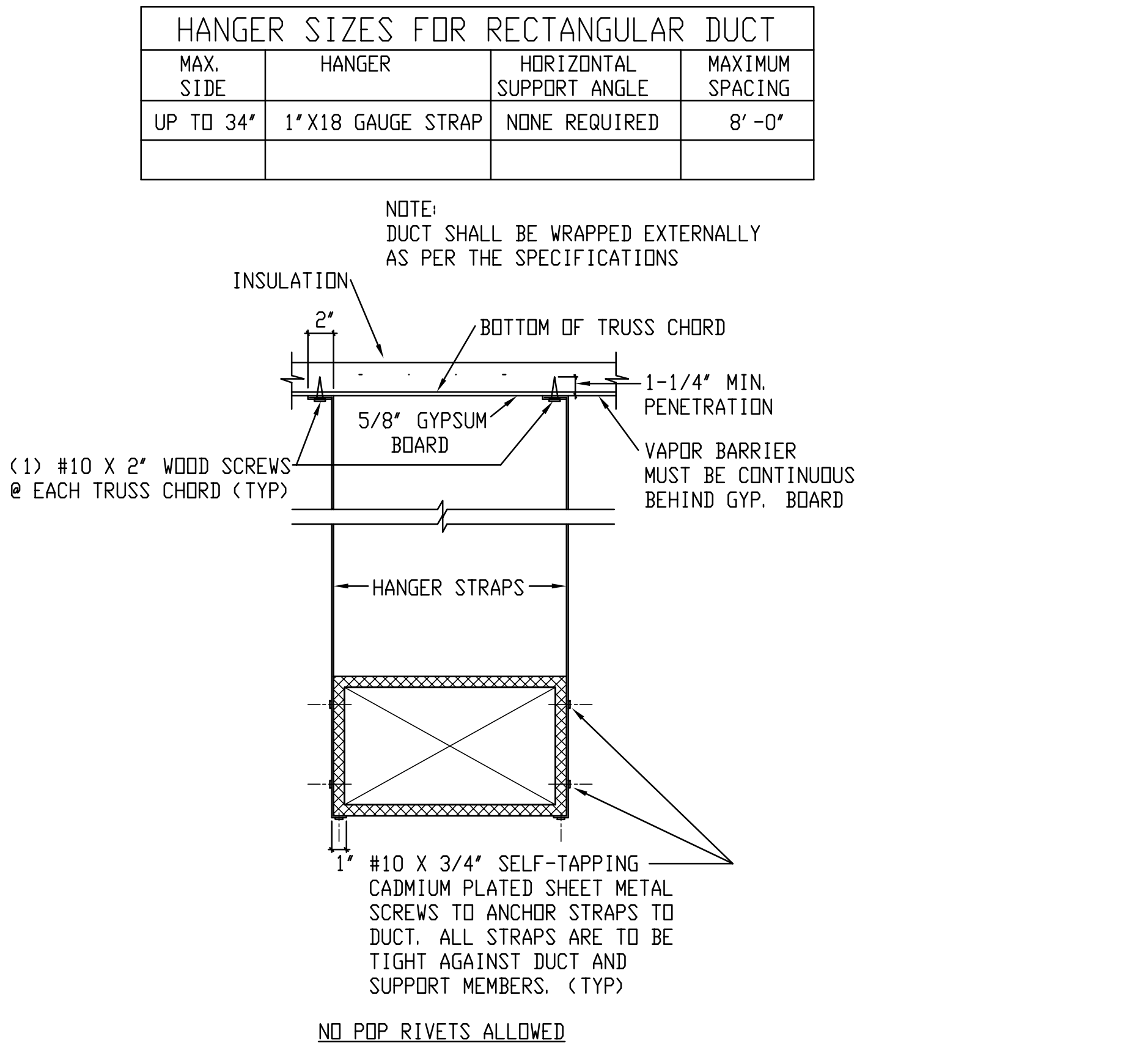
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**1830 REMODEL**  
**UTAH NATIONAL GUARD**

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DESIGNED BY:	HLA
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS
SHEET TITLE	

**MECHANICAL  
REMODEL PLANS  
ALTERNATE**  
**MH102**  
SHEET 7 OF 9

H.V.A.C. LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
		BRANCH DUCT TAKE-OFF
		DUCT FLEXIBLE CONNECTION
		TURNING VANES
		DUCT TEE CONNECTION
		DUCT TRANSITION
		SQUARE TO ROUND DUCT TRANSITION
		AUTOMATIC DAMPER
		OPPOSED BLADE VOLUME DAMPER W/ CONCEALED CEILING DPR REGULATOR
		BACK-DRAFT DAMPER
		DUCT ACCESS DOOR
	RA	RETURN AIR, RISE AND DROP
	SA	SUPPLY AIR, RISE AND DROP
	EA	EXHAUST AIR, RISE AND DROP
	DA	OUTSIDE AIR, RISE AND DROP
	ATC	AUTOMATIC TEMP. CONTROL
	FD	FIRE DAMPER
	FSD	FIRE SMOKE DAMPER
		THERMOSTAT
		SENSOR
	X-#	AIR DEVICE
	X-#	AIR DEVICE CFM
	#	REFERENCE NOTE
	X	DETAIL NUMBER SHEET DETAIL APPEARS
	X	EQUIPMENT TYPE EQUIPMENT NUMBER



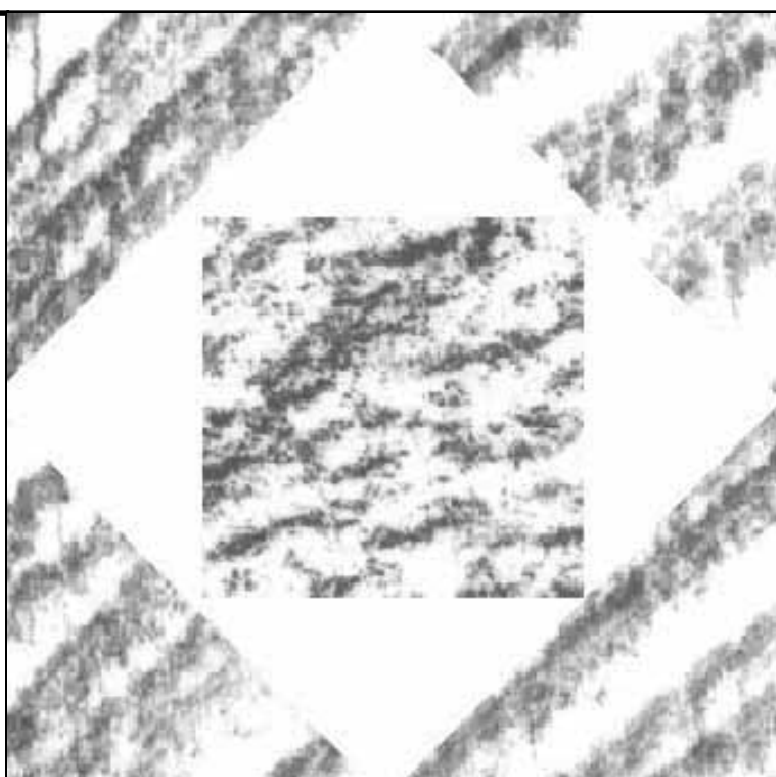
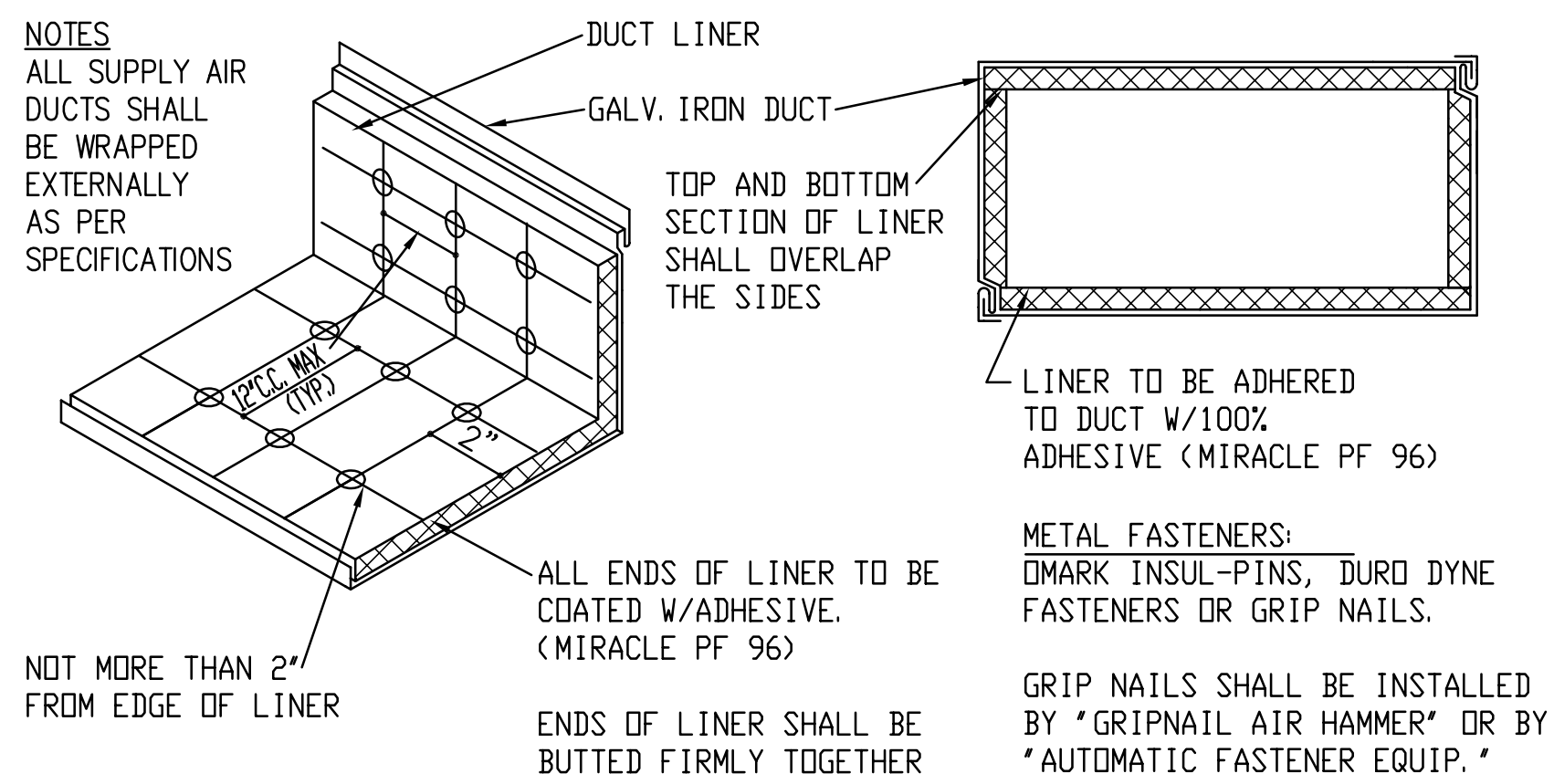
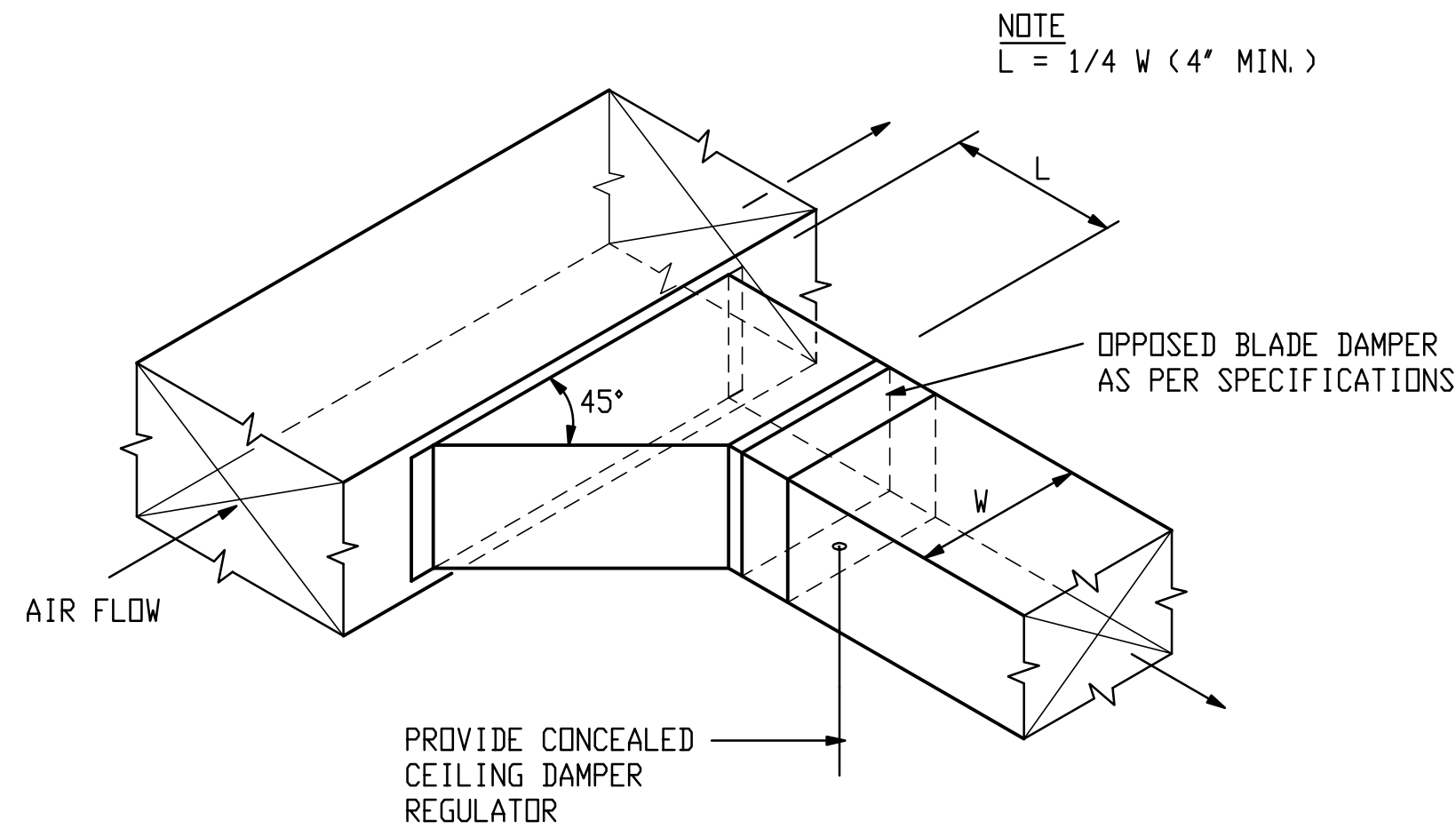
DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAUGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING ①				
		MIN. H, IN.	AT JOINTS			
			DRIVE SLIP	HEMMED S SLIP	ALTERN. BAR SLIP	REINFOR. BAR SLIP
UP THRU 12	26	NONE REQ.	PLAIN S RECOM-MENDED GAUGE	RECOM-MENDED GAUGE	RECOM-MENDED GAUGE	RECOM-MENDED GAUGE
13 - 14	24	NONE REQ.	26	26	24	24
15 - 18	22	NONE REQ.	24	22	22	22
19 - 20	20	NONE REQ.	20	20	20	20
21 - 26	18	NONE REQ.	18	18	18	18
27 - 30	16	NONE REQ.	16	16	16	16
31 - 36	20	1-1/4" X 1-1/4" X 18GA. @ 10'	-	-	20	20
37 - 42	18	1-1/2" X 1-1/2" X 16GA. @ 10'	-	-	18	18
43 - 48	16	1-1/2" X 1-1/2" X 1/8" @ 10'	-	-	16	16

① TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED

② FOR OTHER GAUGE DUCT, SEE SMACNA.

1 DUCT CONSTRUCTION DETAIL

SCALE NONE



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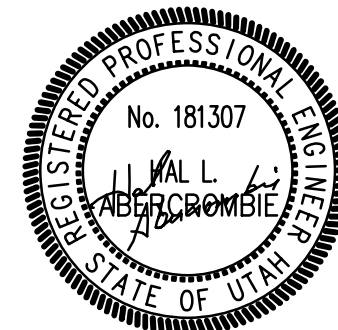
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CAMP WILLIAMS BLDG.  
1830 REMODEL  
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DESIGNED BY:	HLA
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS
SHEET TITLE	

MECHANICAL  
DETAILS  
& LEGEND

**M501**

## ROOFTOP PACKAGED UNIT SCHEDULE

[illegible]

REQUIRED OPTIONS:  
THE FOLLOWING ITEMS ARE FACTORY INSTALLED ONLY:

- ① DISCONNECT SWITCH ACCESSIBLE FROM OUTSIDE OF UNIT. COMES WITH SPRING LOADED WEATHERPROOF COVER. FINAL CONNECTION TO POWER PANEL BY ELECTRICAL CONTRACTOR.  
② (1) SERVICE OUTLET @ 115 VOLT WITH GROUND FAULT CIRCUIT INTERRUPTER GFCI TYPE, FINAL CONNECTION TO POWER PANEL BY ELECTRICAL CONTRACTOR.  
③ TWO-STAGE HEAT.

THE FOLLOWING ITEMS ARE FACTORY OR FIELD INSTALLED:

- ④ ECONOMIZER WITH OPPOSING GEAR DRIVEN RECIRCULATED AIR AND OUTDOOR AIR DAMPERS. PROVIDE WITH NYLON BEARINGS AND NEOPRENE SEALS. FULLY MOUNTED SPRING RETURN MOTOR WITH ADJUSTABLE MINIMUM DAMPER POSITION.
- ⑤ OUTDOOR AIR HOOD SHALL BE REQUIRED WITH ECONOMIZER. THREE CLEANABLE ALUMINUM MESH FILTERS FURNISHED.
- ⑥ OUTDOOR ENTHALPY CONTROL WITH ADJUSTABLE ENTHALPY SENSOR. MODULATES FROM 0 TO 100% OUTSIDE AIR.
- ⑦ SMOKE DETECTOR - PHOTOELECTRIC TYPE. INSTALLED IN THE RETURN AIR SECTIONS OF UNITS OVER 2000 CFM.

THE FOLLOWING ITEMS ARE FIELD INSTALLED ONLY:

- ⑧ ROOF MOUNTING FRAME FURNISHED WITH NAILER STRIP. 14" TOTAL FRAME HEIGHT.  
 ⑨ INSTALLING CONTRACTOR SHALL INSTALL NAMEPLATES PERMANENTLY ATTACHED TO THE R. T. U. NAMEPLATES SHALL BE ENGRAVED LAMINATED PLASTIC OR ETCHED RUSH PROOF METAL.  
 ⑩ UNIT SHALL ATTAIN COOLING CAPACITY AT 95 DEG. F. OUTSIDE AIR.  
 ⑪ PROVIDE WITH POWER EXHAUST FAN TO ACHIEVE 100% RELIEF.


## ELECTRIC WALL HEATER SCHEDULE

MARK	SERVES	K. W. OUTPUT	ELECTRICAL				REMARKS
			Ø	HERTZ	VOLTS	AMPS	
EH 1	FIRE RISER ROOM	3	1	60	208	14.4	COMPLETE WITH THERMOSTAT CONTROL

NOTES:

1. THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS. MOTOR NAME PLATE VOLTAGE SHALL BE NEMA STANDARD 200 VOLT FOR 208 VOLT THREE PHASE SYSTEM AND SHALL BE NEMA STANDARD 230 VOLT FOR 240 VOLT THREE PHASE OR SINGLE PHASE SYSTEM. STARTER HEATERS INSTALLED SHALL BE COORDINATED WITH THE NAME PLATE DATA.
2. S. C. F. M. LISTED IS STANDARD AIR.

## REGISTER, LOUVER AND GRILLE SCHEDULE

MARK	TYPE	SERVICE	CFM RANGE ①	NECK SIZE	REMARKS ②
R-1	CEILING	RA	0-800 	22 X 10	
R-2	CEILING	RA	0-325	10 X 10	
DG-1	DOOR GRILLE	TA	215	18 X 12	
R-3	CEILING	RA	800-1500	22 X 22	
L-1	LOUVER	EA	450	16 X 12	

REGISTER AND LOUVER SCHEDULE NOTES:

- ① MAXIMUM NC=25 @ MAXIMUM CFM NOTED.  
② SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.

## CEILING EXHAUST FAN SCHEDULE ②

MARK	MIN ① S. C. F. M.	STATIC PRESSURE IN W. G.	WATTS ③	REMARKS
CF I	225	0. 4	130	①


- ① CONTROL BY DIV. 15. INTERLOCK WITH THERMOSTAT TO BE ON IN THE OCCUPIED MODE.
- ② PROVIDE BACK-DRAFT DAMPER.
- ③ VOLTAGE IS 115V/1 PHASE/60 HZ.

## DIFFUSER SCHEDULE ② ③

MARK	C. F. M. RANGE ①	NECK CONN.
D-1	0-120	6" DIA.
D-2	125-215	8" DIA.
D-3	230-330	10" DIA.
D-4	305-500	12" DIA.

DIFFUSER SCHEDULE NOTES:

- ① MAXIMUM NC=25 @ MAXIMUM CFM NOTED.
- ② SHALL BE TITUS TDC OR EQUAL BY OTHER APPROVED MANUFACTURERS (SEE SPECIFICATION).
- ③ FINISH SHALL BE OFF-WHITE BAKED ENAMEL.

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CAMP WILLIAMS BLDG.  
1830 REMODEL  
UTAH NATIONAL GUARD

MARK	DATE	DESCRIPTION
	07-25-08	PLAN REVIEW

DATE: JUNE 19, 2008

PROJECT NO:	08021480
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HFSA PROJECT NO:	0763.01
CAF BING FILE NO	00007

CAD DWG FILE NO.	08097
DRAWN BY:	BDA

CHECKED BY:	BDA
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DESIGNED BY:	HLA
DATE:	MECHANICAL

DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	

CONSTRUCTION DOCUMENTS

SHEET TITLE

## MECHANICAL SCHEDULES

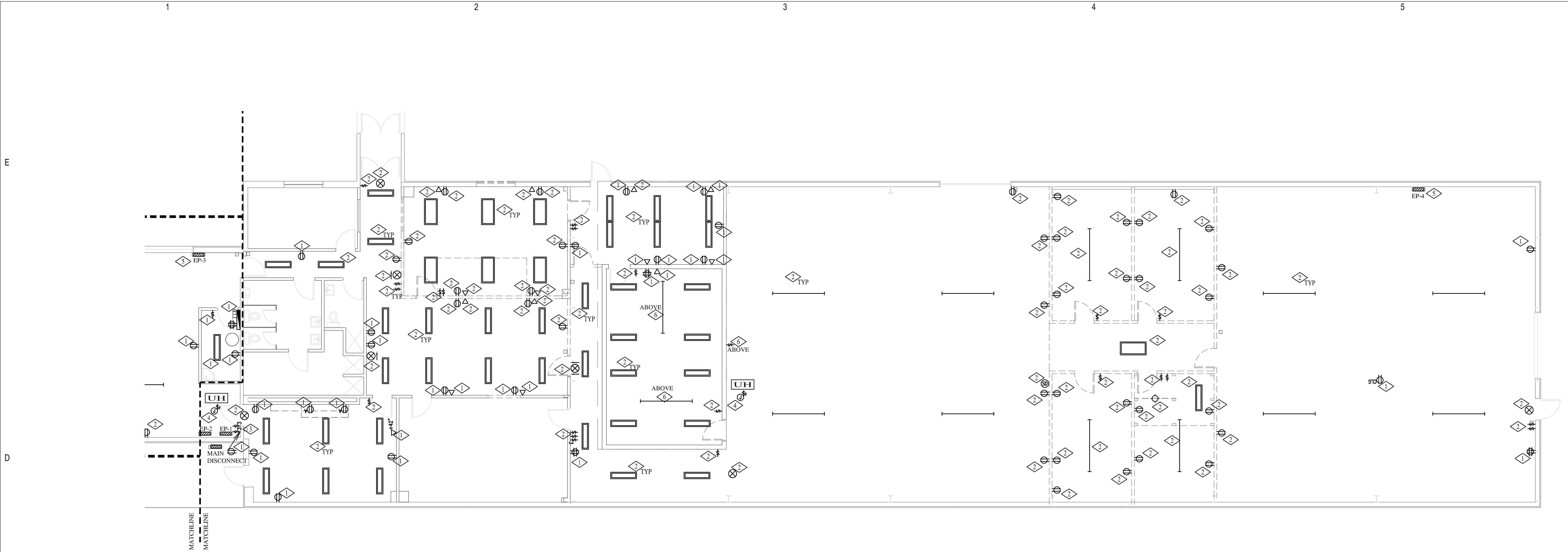
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SHEET 9 OF 9

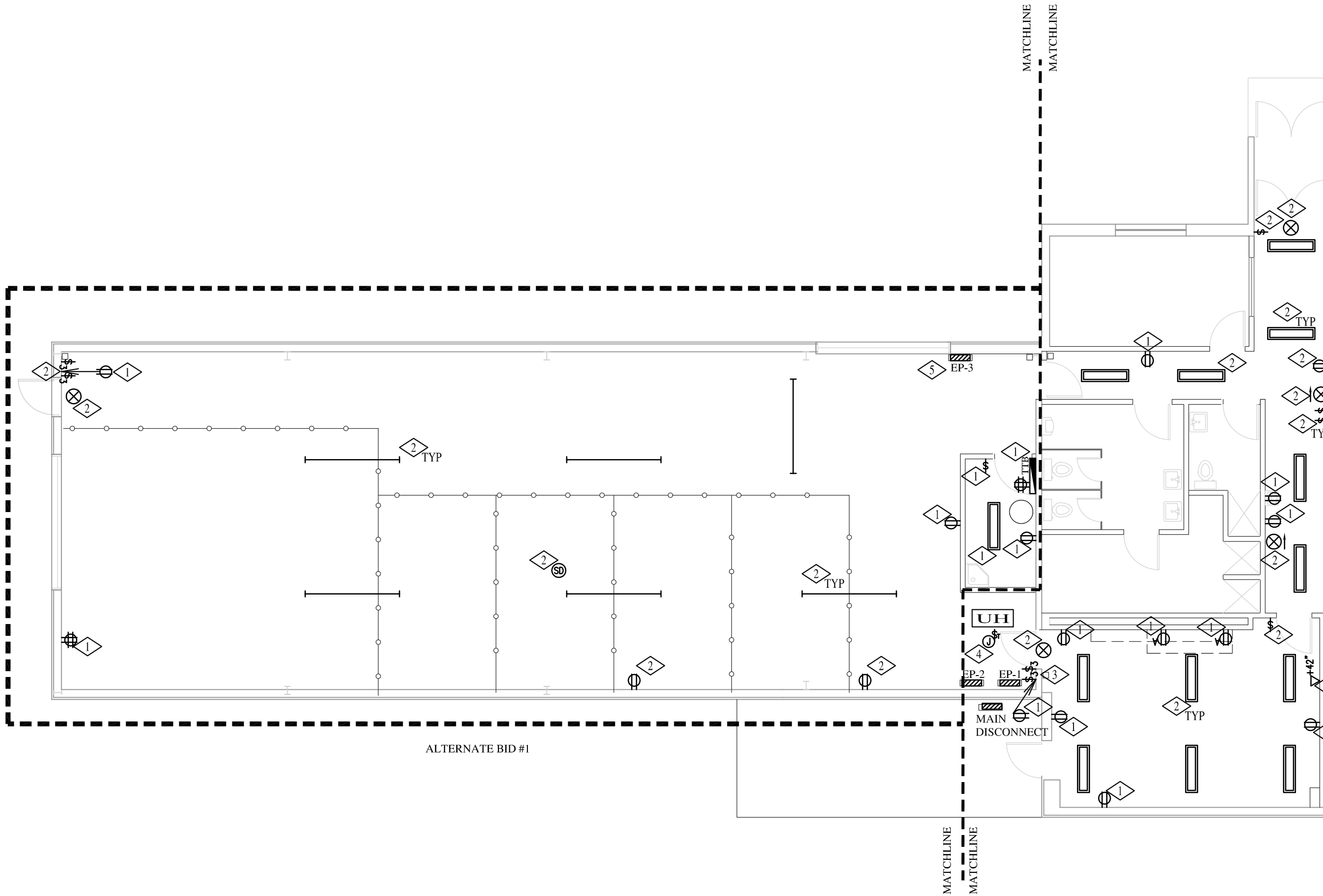
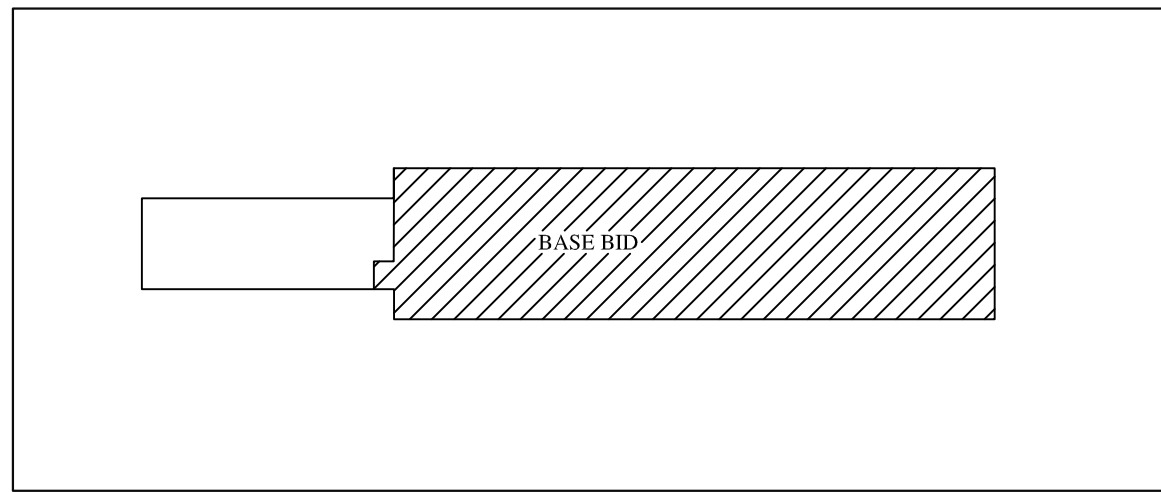
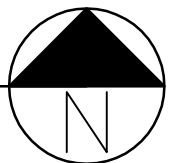




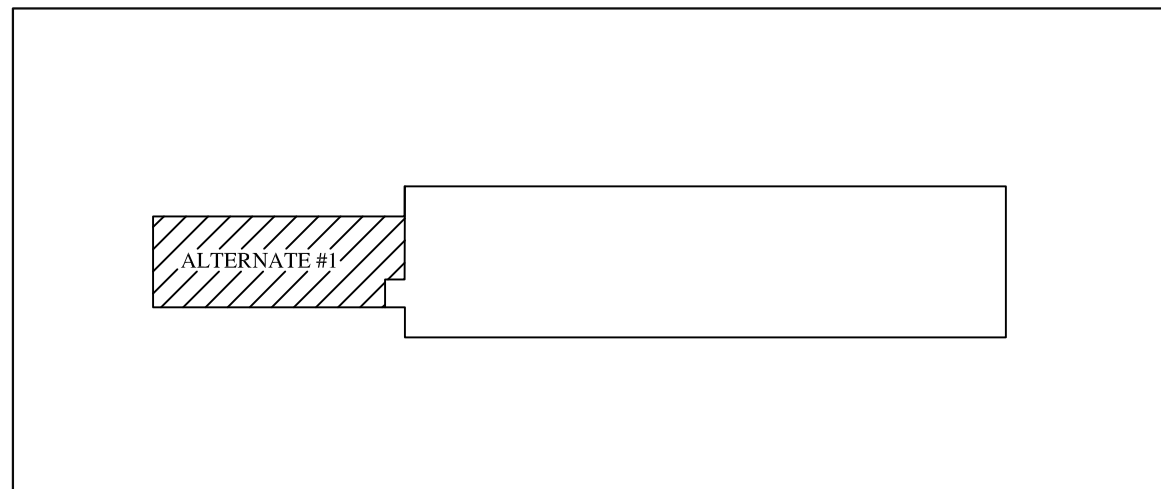
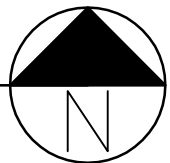




BASE BID PLAN – ELECTRICAL DEMOLITION  
SCALE: 1/8"=1'-0"



ALTERNATE BID PLAN #1 – ELECTRICAL DEMOLITION  
SCALE: 1/8"=1'-0"



REFERENCE NOTES:

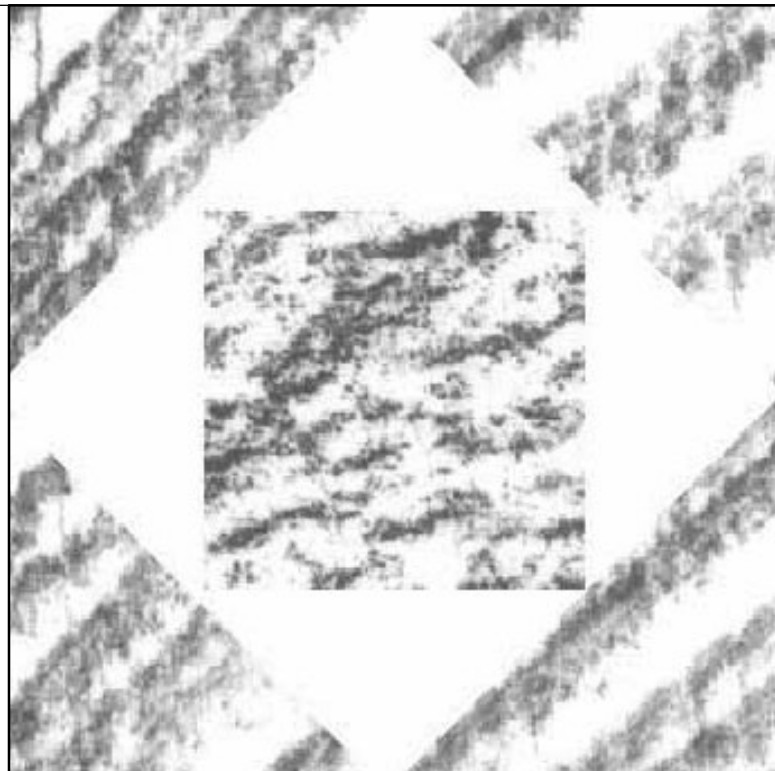
- EXISTING DEVICES TO REMAIN.
- EXISTING DEVICES TO BE REMOVED.
- EXISTING LIGHT SWITCHES TO BE RELOCATED. REFER TO SHEET EL-101 FOR NEW LOCATION.
- COORDINATE DEMOLITION OF ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- EXISTING PANEL TO BE REMOVED. REROUTE ALL EXISTING REMAINING CIRCUITS TO PANEL "EP-4." PROVIDE CONDUIT, CONDUCTORS, RELAYS, ETC. FOR A COMPLETE INSTALLATION. THIS WORK TO BE PART OF BASE BID.
- INSTALL NEW SWITCH TO CONTROL EXISTING LIGHTING IN MEZZANINE ABOVE ROOM. LOCATE SWITCH NEAR MEZZANINE ACCESS LADDER IN SOFFIT. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT. PROVIDE CONDUIT, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION.

DEMOLITION NOTES:

- IN THE EXISTING SPACE TO BE RENOVATED, THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, SWITCHES, WIRING, WIRING DEVICES, CONDUITS, FIRE ALARM DEVICES, SPEAKERS, VOLUME CONTROLS, ETC. AS REQUIRED WHETHER OR NOT SHOWN ON THE DRAWINGS. COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO ANY DEMOLITION WORK AND REINSTALL DEVICES ON THE NEW CEILING IF NECESSARY.
- ALL MATERIALS THAT ARE TO BE REMOVED FROM THE PREMISES SHALL BE RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
- ALL CONCEALED CONDUITS THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISHED SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.
- IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED BECAUSE OF THE NATURE OF THE FACILITY, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT'S INTEGRITY.
- DISCONNECT AND REMOVE EXISTING VOICE/DATA CABLING IN THE AREA BEING RENOVATED. COORDINATE THIS WORK WITH OWNER PRIOR TO REMOVAL.

SPECIAL NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR BASE BID AND ALTERNATE BID.



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PROJECT NO:	
HFSA PROJECT NO:	0763.01
CAD DWG FILE NO:	
DRAWN BY:	
CHECKED BY:	
DESIGNED BY:	
DWG TYPE:	
ARCHITECTURAL PHASE:	

SHEET TITLE

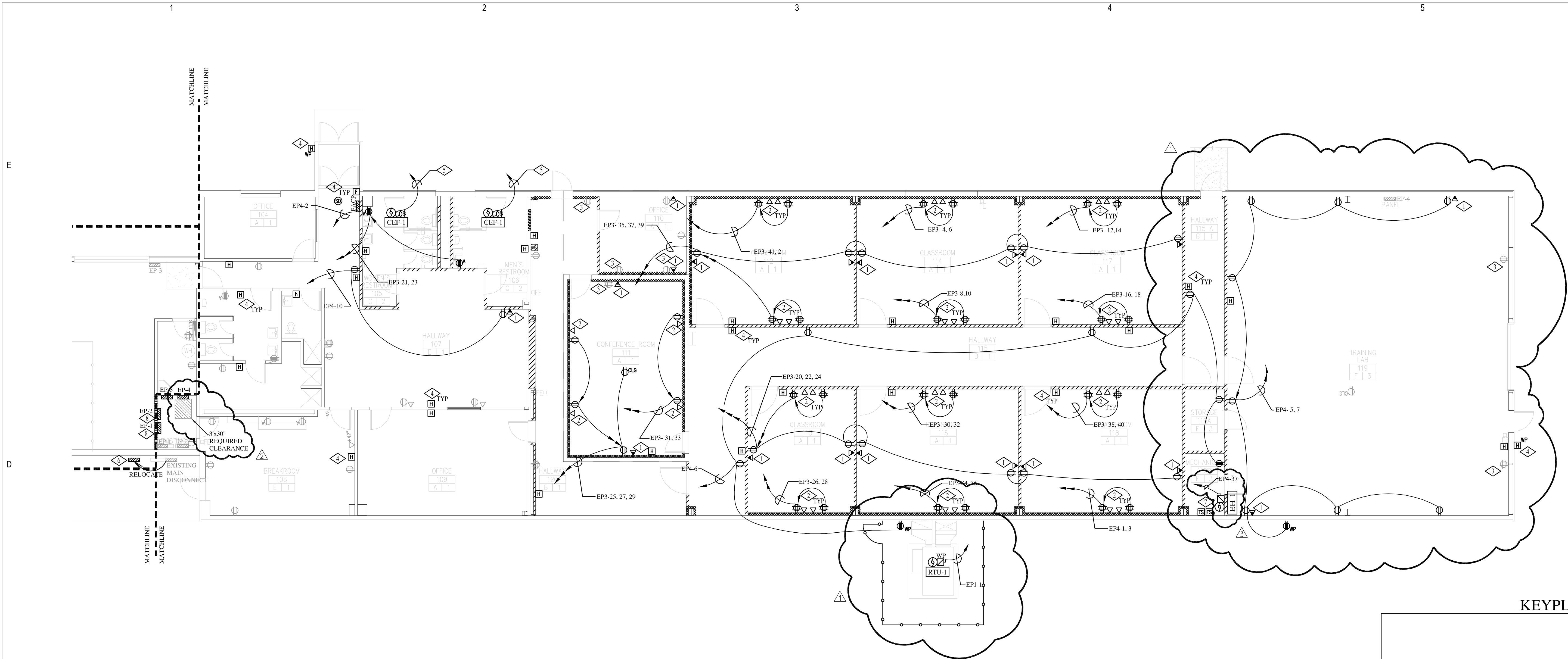
BASE BID  
AND ALTERNATE  
PLANS  
- ELECTRICAL  
DEMOLITION

ED-101

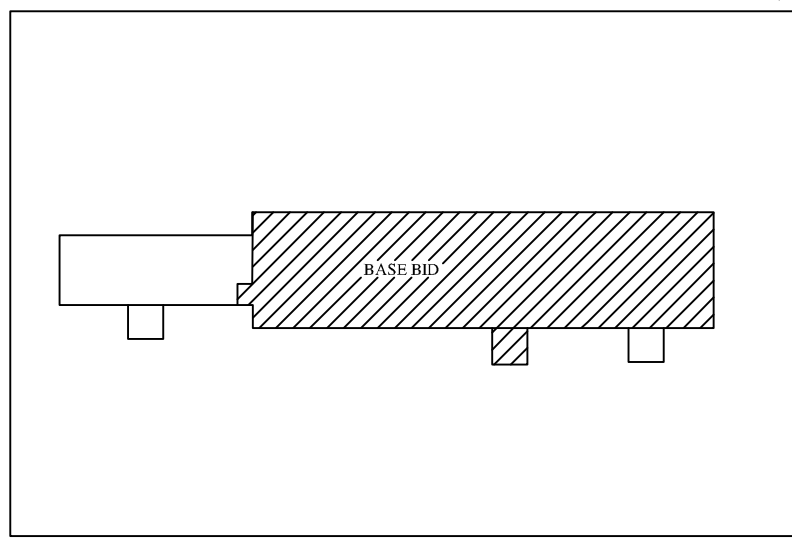
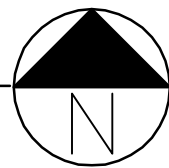
SHEET

2 OF 4





BASE BID PLAN - POWER  
SCALE: 1/8"=1'-0"

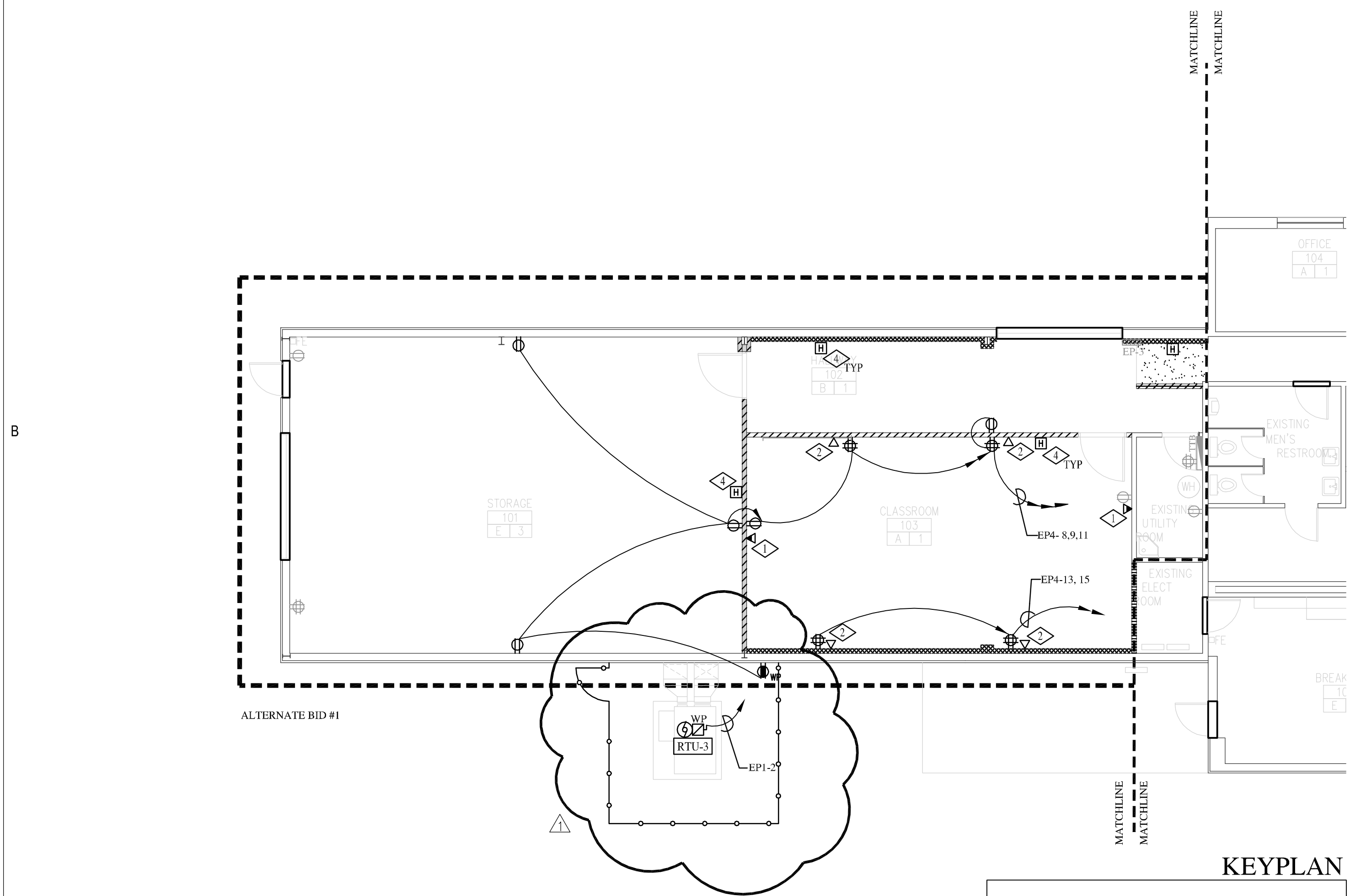


## REFERENCE NOTES: POWER

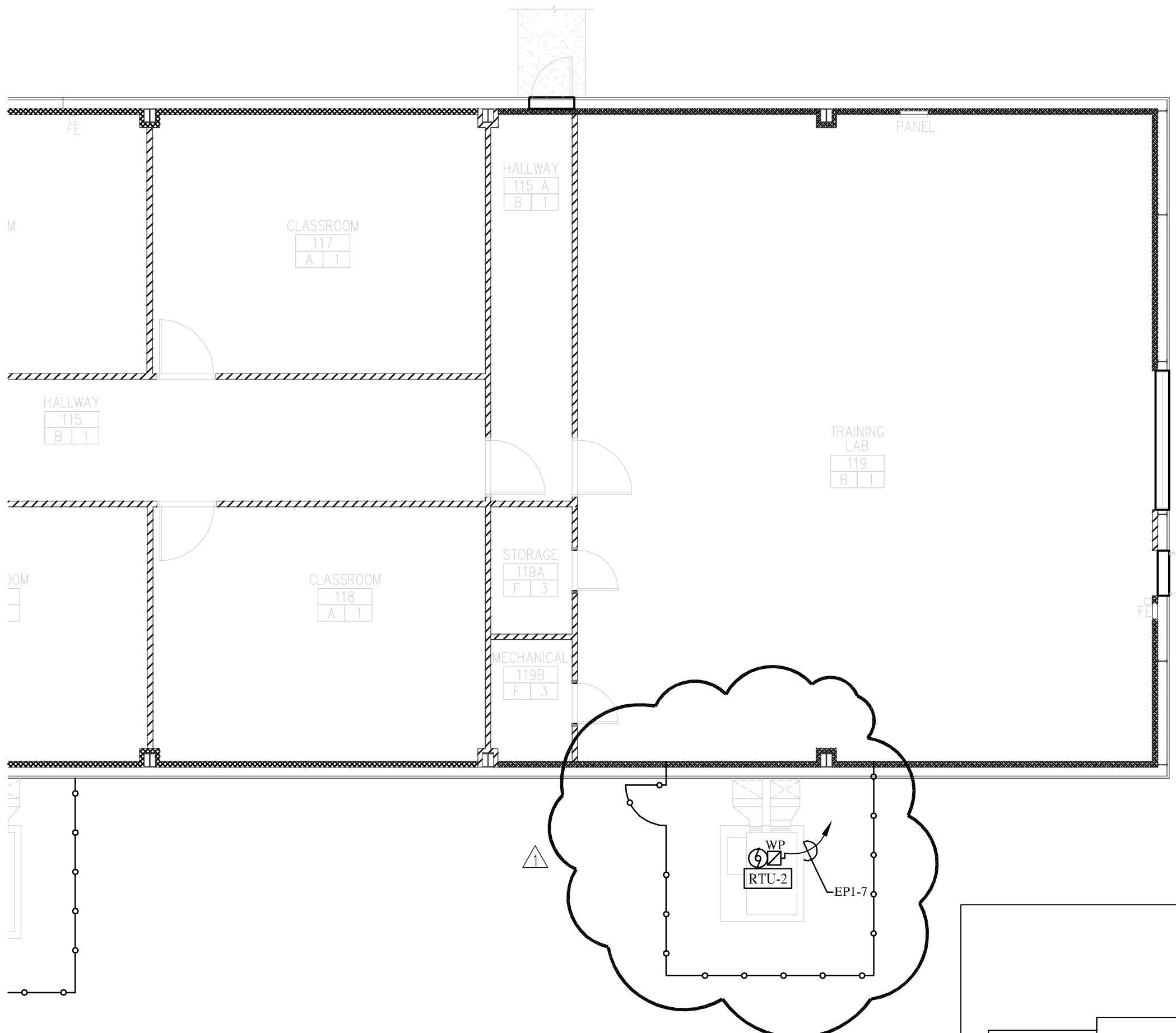
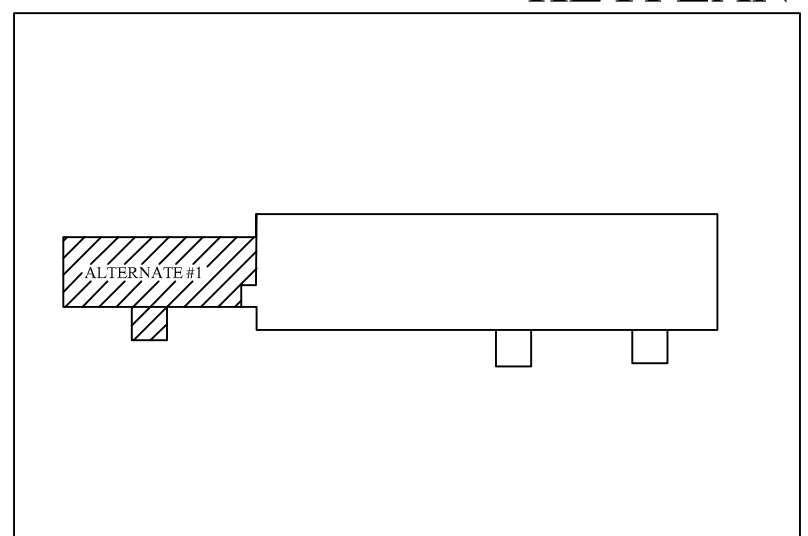
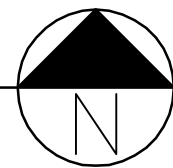
- FURNISH AND INSTALL A 4"x4"x2-1/8" J-BOX IN THE APPROXIMATE LOCATION SHOWN FOR VOICE/DATA. RUN A 3/4" CONDUIT FROM THE J-BOX TO THE NEAREST ACCESSIBLE CEILING SPACE ON THIS FLOOR. RUN ONE VOICE AND ONE DATA CABLE FROM J-BOX TO THE TTB. SEE SPECIFICATIONS FOR MORE INFORMATION. SUPPORT AND ORGANIZE CABLES USING J-HOOKS ATTACHED TO THE STRUCTURE. COORDINATE WITH THE OWNER/ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- FURNISH AND INSTALL A 4"x4"x2-1/8" J-BOX IN THE APPROXIMATE LOCATION SHOWN FOR SECURED DATA. RUN A 1" EMT CONDUIT FROM THE J-BOX TO THE ELECTRICAL ROOM. COORDINATE WITH THE OWNER/ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH-IN. UTILIZE COMPRESSION FITTING CONNECTORS. SET SCREW TYPE FITTINGS ARE NOT ALLOWED. COVERS FOR PULL BOXES SHALL NOT CONTAIN REMOVABLE HINGE PINS AND BE SECURED WITH A GSA APPROVED CHANGEABLE COMBINATION PADLOCK. BOXES WITH PRE-PUNCHED KNOCKOUTS ARE NOT ALLOWED. COORDINATE THIS WORK WITH THE ANTONY BERGE (antony.berge@us.army.mil).
- EXTEND CIRCUITS AND DEVICES TO NEW WALL. PROVIDE CONDUIT, CONDUCTORS, ETC. AS NECESSARY FOR A COMPLETE INSTALLATION.
- FURNISH AND INSTALL NEW FIRE ALARM DEVICES IN THE APPROXIMATE LOCATIONS SHOWN. TIE THE NEW DEVICES TO THE FIRE ALARM CONTROL PANEL. UTILIZE CLASS "A" LOOP. RUN ALL CABLES IN CONDUIT. REFER TO FIRE ALARM RISER DIAGRAM. PROVIDE CONDUITS, CONDUCTORS, RELAY, ETC., FOR A COMPLETE INSTALLATION.
- TIE EXHAUST FAN TO THE LIGHTING CIRCUIT IN THE ROOM. PROVIDE CONDUIT, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. THE EXHAUST FAN SHALL BE CONTROLLED BY THE MOTION SENSOR.
- RELOCATE EXISTING EXTERIOR MAIN DISCONNECT 4' TO THE WEST TO THE APPROXIMATE LOCATION SHOWN. RUN NEW CONDUCTORS AND CONDUITS FROM THE DISCONNECT SWITCH TO THE NEW LOCATION OF PANEL "EP-1". PROPERLY COVER THE EXISTING PENETRATION HOLE. FIELD VERIFY. CUT OR PUNCH THROUGH TERRACE ROOF AS NEEDED FOR OVERHEAD SERVICE. PROVIDE ADDITIONAL CONDUCTORS FROM THE TRANSFORMER TO THE DISCONNECT SWITCH AS NECESSARY. COORDINATE THIS WORK WITH THE OWNER/ARCHITECT.
- TIE TAMPER SWITCH AND FLOW SWITCH TO THE FIRE ALARM CONTROL PANEL. PROVIDE MONITORING MODULE. COORDINATE WITH THE SUB CONTRACTOR FOR EXACT LOCATION OF TAMPER AND FLOW SWITCHES PRIOR TO ROUGH-IN.
- RELOCATE EXISTING PANEL "EP-1" AND PANEL "EP-2" TO THE APPROXIMATE LOCATION SHOWN. EXTEND ALL EXISTING FEEDERS AND BRANCH CIRCUITS TO THE NEW LOCATIONS SHOWN. PROVIDE PROPER SPICE BOX, CONDUIT, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. FIELD VERIFY. FEED PANEL "EP-1" FROM THE NEW LOCATION OF 600AMP DISCONNECT SWITCH OUTSIDE.

## SPECIAL NOTES:

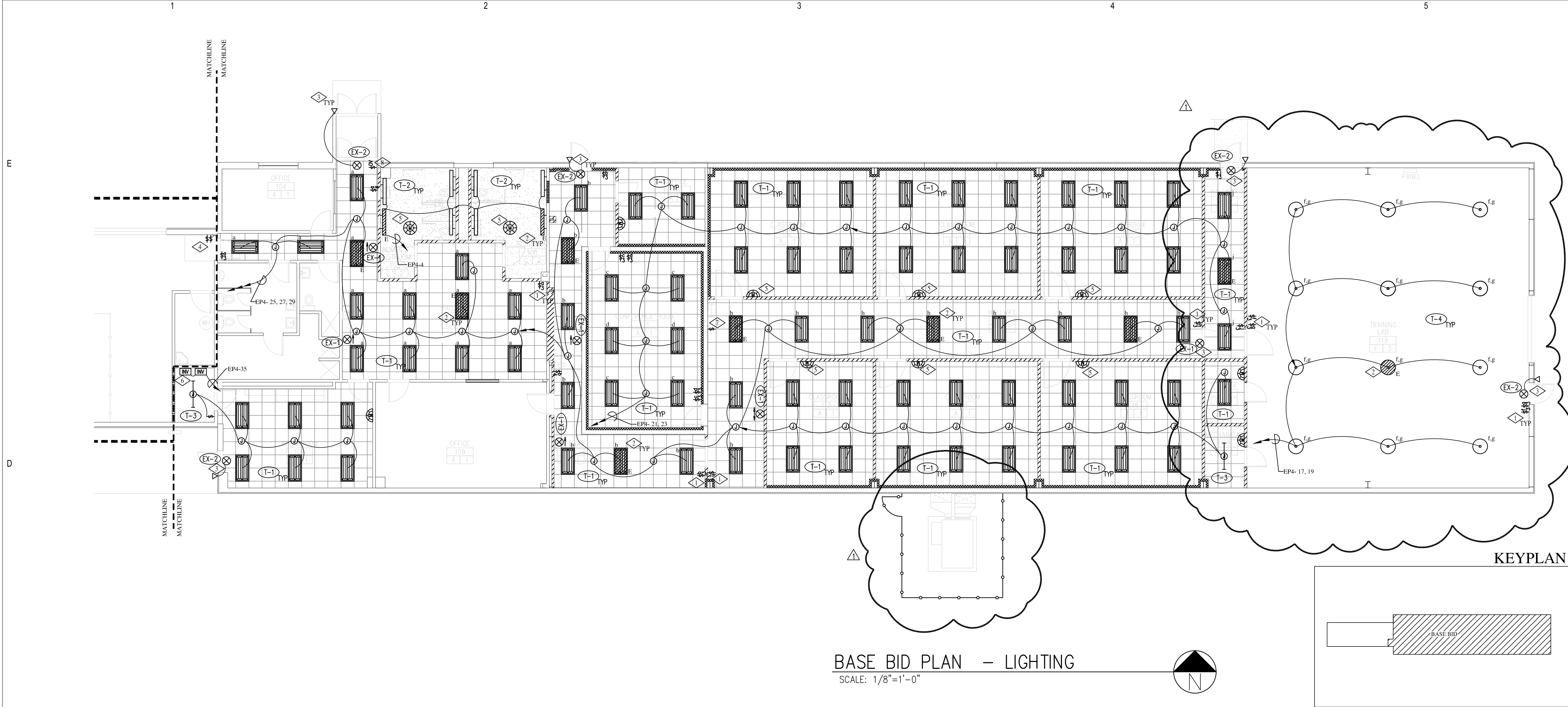
- REFER TO ARCHITECTURAL DRAWINGS FOR BASE BID AND ALTERNATE BID.



ALTERNATE BID PLAN #1 - POWER  
SCALE: 1/8"=1'-0"





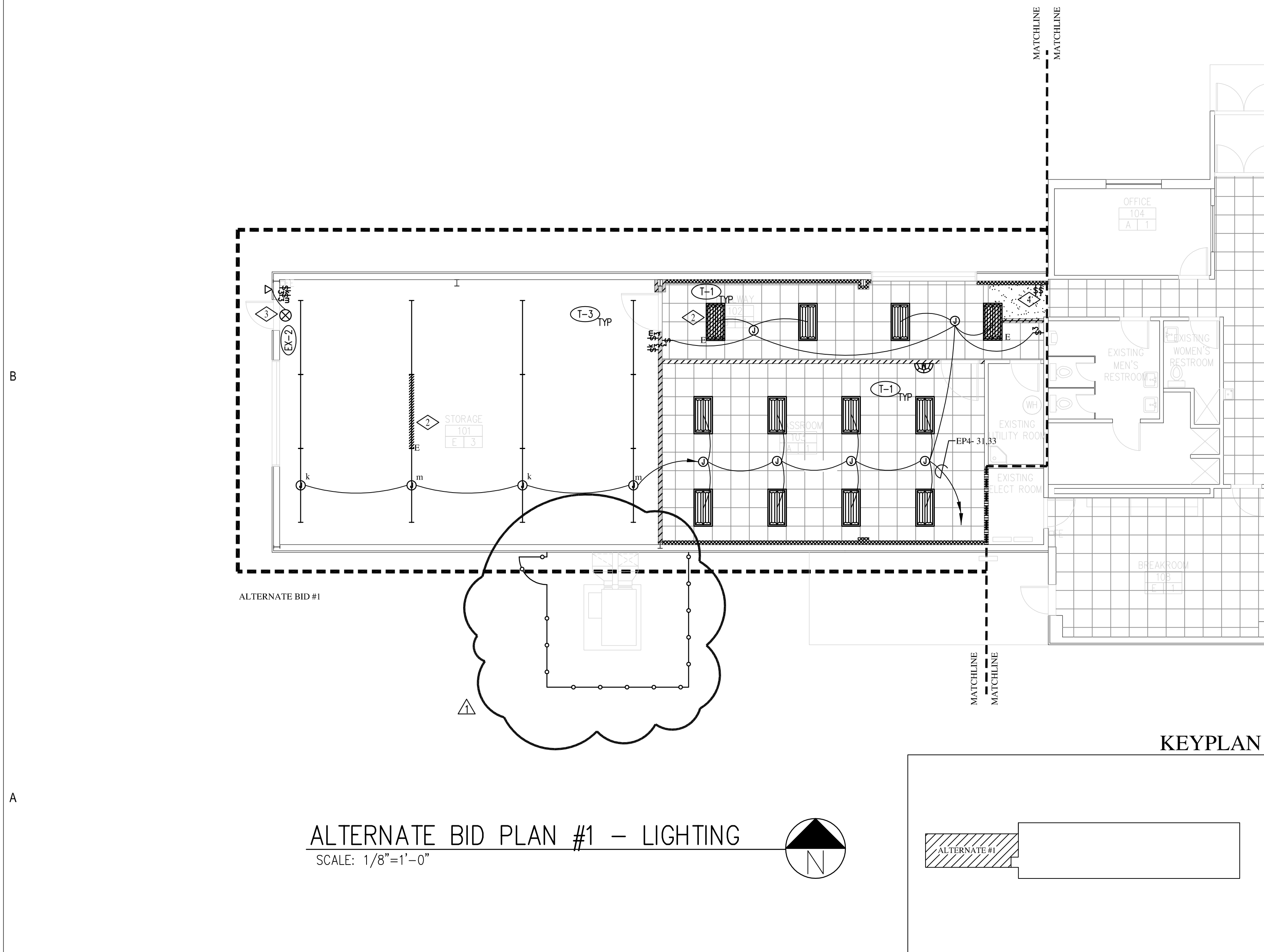


### REFERENCE NOTES: LIGHTING

- 1) TIE ALL FIXTURES INDICATED WITH A LOWER CASE LETTER TO ITS CORRESPONDING SWITCHES, PROVIDE CONDUITS, CONDUCTORS, LIGHTING CONTACTORS, ETC. FOR A COMPLETE INSTALLATION.
- 2) EMERGENCY LIGHT FIXTURES INDICATED WITH THE LETTER 'E' SHALL BE PROVIDED WITH A SEPARATE BALLAST FOR THE CENTER LAMP. ONE LAMP IN THE LIGHT FIXTURE SHALL BE TIED TO THE EMERGENCY INVERTER AND TURN ON WHEN THE COMMERCIAL POWER FAILS REGARDLESS OF THE POSITION OF THE CONTROL SWITCH. ALL THE LAMPS IN THE FIXTURE SHALL BE CONTROLLED BY THE INDICATED SWITCH. PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. RUN THE EMERGENCY CIRCUIT IN A SEPARATE RACEWAY.
- 3) EXIT SIGNS TO AN UNSWITCHED EMERGENCY LIGHTING CIRCUIT. PROVIDE CONDUITS, CONDUCTORS, RELAY BALLASTS, ETC. FOR A COMPLETE INSTALLATION.
- 4) RELOCATE SWITCHES AND ASSOCIATED CONDUCTORS NEAR EXISTING PANEL "EP-1" TO THE APPROXIMATE LOCATION SHOWN. PROVIDE CONDUIT, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. THIS WORK IS PART OF BASE BID. AS PART OF ALTERNATE BID, REMOVE THESE LIGHT SWITCHES
- 5) FURNISH AND INSTALL DUAL TECHNOLOGY MOTION SENSOR TO CONTROL THE LIGHT FIXTURES IN THE ROOM. SET THE TIME DELAY FOR 30 MINUTES. WATT STOPPER, LITHONIA, LEVITON, & SENSOR SWITCH ARE THE APPROVED MANUFACTURERS.
- 6) FURNISH AND INSTALL TWO 250 WATT EMERGENCY INVERTER IN THE APPROXIMATE LOCATION TO FEED THE EMERGENCY LIGHTS. TIE THE EMERGENCY LIGHTS FIXTURE TO THE INVERTER UTILIZING SEPARATE RACE WAY THAN THE NORMAL LIGHTING CIRCUIT. CONDUIT, CONDUCTORS, RELAY, ETC. FOR A COMPLETE INSTALLATION. GUTH IS AN APPROVED MANUFACTURER.
- 7) NEW SWITCH TO CONTROL EXISTING LIGHTS IN THE MEZZANINE. PROVIDE CONDUIT, CONDUCTORS, ETC. TO ACCOMMODATE NEW SWITCHES.
- 8) RUN ALL THE LIGHTING CIRCUITS THROUGH LIGHTING CONTACTORS. FURNISH AND INSTALL AN OVER-RIDE SWITCH IN THE APPROXIMATE LOCATION SHOWN AND TIE TO THE LIGHTING CONTACTORS. PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. COORDINATE WITH THE OWNER FOR THE EXACT LOCATIONS OF OVER-RIDE SWITCH.

### SPECIAL NOTES:

- 1) REFER TO ARCHITECTURAL DRAWINGS FOR BASE BID AND ALTERNATE BID.



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**ALTERNATE FLOOR  
PLANS AND BASE BID  
- LIGHTING**

**EL-101**  
SHEET 4 OF 4